

UNIVERSITY OF TORONTO
FACULTY OF ARTS AND SCIENCE



ERINDALE COLLEGE
MISSISSAUGA
1976-77 CALENDAR

**ERINDALE COLLEGE
UNIVERSITY OF TORONTO
1976-1977
TENTH ANNIVERSARY
OF THE COLLEGE**

Sesquicentennial



1827-1977

Erindale College, one of the eight Colleges that constitute the Faculty of Arts and Science in the University of Toronto, opened in September 1967, as a suburban campus of the University of Toronto. The College offers the Arts and Science Programme of the University of Toronto and students may qualify for the University of Toronto Bachelor of Arts or Bachelor of Science degree in either a three or four year programme. A Bachelor of Commerce degree is also offered. The admission regulations are those of the University of Toronto.

Erindale College is located twenty miles west of downtown Toronto in the City of Mississauga. It may be reached by taking the Queen Elizabeth Highway, or Highway 5, or the Macdonald Cartier Freeway (401) to Mississauga Road. (See the map in back of Calendar.)

Students wishing information about the College should address: The Registrar, Erindale College, 3359 Mississauga Road North, Mississauga, Ontario, L5L 1C6 or by telephoning 828-5231 or 828-5331 (area code 416). Part-time students should call 828-5244.

Important Notices

1. Students are reminded that they have primary responsibility for making certain that they and their programmes of study adhere to the various important dates, rules and regulations contained in this calendar. Students should always consult their Registrar if they have any questions about these regulations.

2. Curriculum

At the time of printing, the courses of instruction described in this calendar are those intended to be offered at Erindale College in the academic year of 1976–77. However, it may happen that some courses may require to be changed in content or to be withdrawn. In such cases, the University and the Faculty of Arts and Science will make every effort to provide equivalent alternative instruction, but the provision of such instruction cannot be guaranteed.

3. Limitation of Enrolment in Courses

The Faculty of Arts and Science reserves the right to limit the number of registrants in any course of instruction described in this calendar in circumstances where the number of qualified applicants for a course exceeds the teaching and other resources available to the Faculty.

4. Academic and Other Fees

The University reserves the right to alter the fees and other charges described in this calendar.

5. Students who have any problems of an academic or personal nature should consult their Registrar.

6. Two other Arts and Science Calendars are published by the University of Toronto. They are the St. George Campus Calendar and the Scarborough College Calendar.

Purpose of the Calendar

The purpose of this calendar is to serve as a principal consulting guide for students seeking to obtain the degree of Bachelor of Arts, Bachelor of Science or Bachelor of Commerce from the University of Toronto by either full-time or part-time study.

This calendar provides detailed information for courses of instruction offered on the Erindale Campus only.

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Definitions

Subject: A particular discipline such as *English, Chemistry, Philosophy or Sociology*.

Course: A specific unit of an academic programme such as *Chemistry 150Y (CHM150Y), History 250Y (HIS250Y) or Political Science 100Y (POL100Y)* for which one credit is given.

Credit: A unit of an academic programme earned toward a degree. A full course equals one credit and a half-course equals one half credit.

Programme: Refers either to the collection of courses taken by the individual student in any one year or to a particular group of courses that constitute a *Specialist Programme* or *Minor Programme*.

Corequisite: A requirement which should be undertaken simultaneously with the course which lists the corequisite.

Prerequisite: A qualification or requirement which must be met before enrolment in a course is permitted.

Exclusion: A course which may not be taken or counted for credit in addition to the course which carries it as an exclusion, because of the similarity in content between the two courses.

Standing in the Faculty: A student has standing in the Faculty after successfully completing one half credit in a degree programme.

Academic Penalty: Usually failure in a course due to failure to observe a regulation. May also be applied to a reduced or zero grade for all or part of a course as a result of a misdemeanor or offence under the University of Toronto Code of Behaviour.

Student in Good Standing: A student not on suspension or probation.

First Year Student: A student who has obtained four and a half or fewer credits.

Second Year Student: A student who has obtained five, but less than ten credits.

Third Year Student: A student who has obtained ten, but less than fifteen credits.

Four Year Student: A student who has obtained fifteen or more credits.

Full-Time Student: A student registered in courses to a value of four credits or more per session.

Part-Time Student: A student registered in courses to a value of less than four credits per session.

Regular Student: A student pursuing a programme of study leading to the degree of Bachelor of Arts, Bachelor of Commerce, or Bachelor of Science.

Special Student: A student who is not proceeding to a degree in the Faculty of Arts and Science.

Full Course Equivalent: Any two half courses may be combined to make up the equivalent of one full course. Two half credits equal one full credit. These half courses need not be in the same subject.

Academic Year

The academic year is divided into a Winter and a Summer Session.

The Summer Session has been introduced primarily to assist students who are unable to attend the Winter Session when the majority of teaching is undertaken, but courses of instruction may be taken for degree credit in either the Winter or Summer Sessions or in both sessions.

The dates for the Sessions are:

Summer Session 1976

First Term: Monday 17th May 1976 — Friday 25th June 1976

Second Term: Monday 5th July 1976 — Friday 13th August 1976

Note: Lectures in H and Y courses will continue between 24th June and 5th July 1976

Winter Session 1976/77

First Term: Monday 13th September 1976 — Friday 10th December 1976

Second Term: Monday 3rd January 1977 — Thursday 7th April 1977

1976

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
JANUARY							FEBRUARY							MARCH							APRIL						
4	5	6	7	8	9	10	1	2	3	4	5	6	7	1	2	3	4	5	6	4	5	6	7	8	9	10	
11	12	13	14	15	16	17	8	9	10	11	12	13	14	15	8	9	10	11	12	13	11	12	13	14	15	16	17
18	19	20	21	22	23	24	15	16	17	18	19	20	21	22	15	16	17	18	19	20	18	19	20	21	22	23	24
25	26	27	28	29	30	31	22	23	24	25	26	27	28	29	22	23	24	25	26	27	25	26	27	28	29	30	31
MAY							JUNE							JULY							AUGUST						
2	3	4	5	6	7	8	1	2	3	4	5	6	7	1	2	3	4	5	6	1	2	3	4	5	6	7	
9	10	11	12	13	14	15	6	7	8	9	10	11	12	13	10	11	12	13	14	15	8	9	10	11	12	13	14
16	17	18	19	20	21	22	13	14	15	16	17	18	19	20	11	12	13	14	15	16	15	16	17	18	19	20	21
23	24	25	26	27	28	29	27	28	29	30	20	21	22	23	24	20	21	22	23	24	22	23	24	25	26	27	28
30	31																				25	26	27	28	29	30	31
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER						
5	6	7	8	9	10	11	1	2	3	4	5	6	7	1	2	3	4	5	6	5	6	7	8	9	10	11	
12	13	14	15	16	17	18	3	4	5	6	7	8	9	7	8	9	10	11	12	12	13	14	15	16	17	18	
19	20	21	22	23	24	25	10	11	12	13	14	15	16	10	11	12	13	14	15	14	15	16	17	18	19	20	
26	27	28	29	30			17	18	19	20	21	22	23	17	18	19	20	21	22	21	22	23	24	25	26	27	28
31							24	25	26	27	28	29	30	24	25	26	27	28	29	28	29	30	31	29	30	31	

1977

S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
JANUARY							FEBRUARY							MARCH							APRIL							
2	3	4	5	6	7	8	1	2	3	4	5	6	7	1	2	3	4	5	6	3	4	5	6	7	8	9		
9	10	11	12	13	14	15	6	7	8	9	10	11	12	13	14	15	16	17	18	10	11	12	13	14	15	16		
16	17	18	19	20	21	22	13	14	15	16	17	18	19	10	11	12	13	14	15	14	15	16	17	18	19	20		
23	24	25	26	27	28	29	20	21	22	23	24	25	26	27	20	21	22	23	24	25	21	22	23	24	25	26	27	
30	31						27	28						27	28	29	30	31		24	25	26	27	28	29	30	31	
MAY							JUNE							JULY							AUGUST							
1	2	3	4	5	6	7	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11	12	13		
8	9	10	11	12	13	14	12	13	14	15	16	17	18	19	10	11	12	13	14	15	14	15	16	17	18	19	20	
15	16	17	18	19	20	21	12	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17	18	19	20	21	22	
22	23	24	25	26	27	28	19	20	21	22	23	24	25	26	27	20	21	22	23	24	25	21	22	23	24	25	26	27
29	30	31					26	27	28	29	30				26	27	28	29	30	31	28	29	30	31				
SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
4	5	6	7	8	9	10	2	3	4	5	6	7	8	1	2	3	4	5	6	4	5	6	7	8	9	10		
11	12	13	14	15	16	17	9	10	11	12	13	14	15	16	10	11	12	13	14	15	11	12	13	14	15	16	17	
18	19	20	21	22	23	24	16	17	18	19	20	21	22	17	18	19	20	21	22	18	19	20	21	22	23	24		
25	26	27	28	29	30	31	23	24	25	26	27	28	29	20	21	22	23	24	25	25	26	27	28	29	30	31		
30	31						31							27	28	29	30											

SESSIONAL DATES 1976-1977

**Applicable
Session**

Day/Date

1976

Mon. 22 March	Registration for Summer Session and enrolment in Summer courses begins	S
Thurs. 1 April	Last date for new students, both regular and special, to apply for admission in order to enrol in A, F, H and Y courses in Summer Session	S
Fri. 16 April	Good Friday — University closed.	
Fri. 30 April	Last date for former students with standing in the Faculty and who were not in attendance in the preceding Summer or Winter Session to register in order to enrol in A, F, H and Y courses in the Summer Session	S
Fri. 14 May	<ul style="list-style-type: none"> ● Last date for registration for students taking A, F, H and Y courses in the Summer Session. After this date, a late registration fee will be imposed ● Last date for students, both regular and special, to apply for admission to enrol in B and S courses in Summer Session 	S
Mon. 17 May	First term of Summer Session commences Classes begin in full (A and Y) courses and half (F and H) courses	S
Fri. 21 May	Last date for students to add A and F courses to their programmes	S
Mon. 24 May	Victoria Day — University closed	
Fri. 28 May	Last date for students to add H and Y courses to their programmes	S
Tues. 1 June	Last date for receipt of applications for: <ul style="list-style-type: none"> ● Admission of new regular and special students to full-time studies ● College transfers ● Transfer from part-time to full-time studies 	W
Fri. 4 June	Last date to withdraw without academic penalty from A and F courses	S
Mon. 14 June	Spring Convocation for Faculty of Arts and Science begins	
Fri. 18 June	Last date for former students with at least one half credit in the Faculty and who were not in attendance in the 1975 Summer or 1975/76 Winter Sessions to re-register in order to enrol in B and S courses in the Summer Session	S
Fri. 25 June	<ul style="list-style-type: none"> ● First term Summer Session concludes ● Classes end in A and F courses, and all term work in such courses is to be completed by this date 	S
28-30 June	Term and Final Examinations may be held in A and F courses	S
Wed. 30 June	<ul style="list-style-type: none"> ● Last date for registration in B and S courses in the Summer Session. After this date, a late registration fee will be imposed. ● Last date for new students, both regular and special, to apply for admission to part-time studies 	W

SESSIONAL DATES 1976-1977

Applicable Session

Day/Date		
Thurs. 1 July	Dominion Day — University closed	
Mon. 5 July	<ul style="list-style-type: none"> ● Second term Summer Session begins for B and S courses ● Registration for Winter Session begins 	S W
Fri. 9 July	<ul style="list-style-type: none"> ● Last date to withdraw without academic penalty from H and Y courses ● Last date for students to add B or S courses to their programmes 	S S
Thurs. 15 July	Last date for students who expect to graduate at the Fall Convocation to notify their College Registrars	
Fri. 23 July	Last date to withdraw without academic penalty from B and S courses	S
Fri. 30 July	Last date for former students with standing in the Faculty and who were not in attendance in the preceding Summer or Winter Sessions to register in order to enrol in A, F, H and Y courses in the Winter Session	W
Mon. 2 August	Civic Holiday — University closed	
Fri. 13 August	Classes end in B, H, S and Y courses; all term work to be completed by this date	S
16–20 August	Summer Session examinations in B, H, S and Y courses	S
Mon. 6 September	Labour Day — University closed	
Wed. 8 September	Results of Summer Session examinations available	S
Fri. 10 September	Last date for registration in the Winter Session. After this date, a late registration fee will be imposed	W
Mon. 13 September	First term Winter Session begins. Classes begin in A, F, H and Y courses	W
Mon. 20 September	Last date to submit course selection forms to College Registrars for Winter Session courses	W
Fri. 24 September	Last date to add A and F courses to programme	W
Fri. 1 October	Last date to add H and Y courses to programme	W
Fri. 22 October	Last date to withdraw without academic penalty from A and F courses	W
Mon. 15 November	Last date for students enrolled in the Commerce and Finance Programme to advise College Registrars if they wish to take a B.A. (three year) degree instead of a B.Com. degree in 1977	W
Fri. 10 December	First term concludes. All term work in A and F courses to be completed by this date	W
13–22 December	Examination period for A and F courses and term tests for multi-sectioned H and Y courses	W
Wed. 15 December	Last date for students in Study Elsewhere Programmes to confirm their programmes	W

SESSIONAL DATES 1976-1977

Applicable
Session

Day/Date		
Mon. 3 January	<ul style="list-style-type: none">● Second Term Winter Session begins● Classes commence in B, H, S and Y courses● Second Term instalment of fees due	W
Fri. 14 January	<ul style="list-style-type: none">● Last date to add B and S courses to programme● Last date to withdraw without academic penalty from H and Y courses	W
Fri. 11 February	<ul style="list-style-type: none">● Last date to withdraw from B and S courses without academic penalty● Last date for students who expect to graduate at the Spring Convocation to notify their College Registrars	W
14-20 February	Reading Week — lectures and laboratory classes will not be held	W
Fri. 1 April	Last date for new students, both regular and special, to apply for admission in order to enrol in A, F, H and Y courses in Summer Session	S
Thurs. 7 April	Classes end. All term work to be completed by this date	W
Fri. 8 April	Good Friday — University closed	
18 April-6 May	Winter Session examination period for B, H, S and Y courses	W
Fri. 29 April	Last date for former students with standing in the Faculty and who were not in attendance in the previous Summer or Winter Sessions to register in order to enrol in A, F, H and Y courses in the Summer Session	S
Wed. 1 June	Last date to submit requests to transfer to full-time studies for 1977-78	W
Mon. 13 June	Spring Convocation for Faculty of Arts and Science begins	

ADMINISTRATIVE STAFF

Officers to the University of Toronto

<i>Chancellor</i>	Eva W. Mader Macdonald (Mrs), M.D., C.M., D.P.H.
<i>President</i>	J. R. Evans, M.D., D.Phil., F.R.C.P.(C)
<i>Special Assistant to the President</i>	J. H. Sword, B.A., M.A., LL.D.
<i>Chairman of the Governing Council</i>	C. Malim Harding, O.B.E., B.A.
<i>Vice-President and Provost</i>	D. A. Chant, B.A. M.A., Ph.D., F.R.E.S., F.R.S.C.
<i>Vice-Provost</i>	J. D. Hamilton, M.D., F.R.C.P.(C), D.Sc.
<i>Vice-Provost</i>	M. Israel, B.S., M.A., Ph.D.
<i>Vice-Provost</i>	P.P.M. Meincke, B.Sc., M.A., Ph.D.
<i>Vice-Provost</i>	R. Ross, M.A., M.B.E.
<i>Vice-President Research and Planning</i>	G. E. Connell, B.A., Ph.D.
<i>Assistant Vice-President</i>	G. P. Hiebert, B.Com., C.A.
<i>Vice-President, Business Affairs</i>	A. G. Rankin, B.Com., F.C.A.
<i>Vice-President, Internal Affairs</i>	F. Iacobucci, B.Com., LL.B., Dip. Int. Law
<i>University Ombudsman</i>	E. A. McKee, B.A., M.A.
<i>Chief Librarian</i>	R. Blackburn, M.A., B.L.S., M.S. LL.D.
<i>Secretary of the Governing Council</i>	D. S. Claringbold
<i>Director of Admissions</i>	W. Kent, B.A., M.A.
<i>Director of Student Awards</i>	P. S. Phillips, B.A., C.A.
<i>Director of Student Record Services</i>	J. C. Wilson, B.A.Sc., M.Sc., Ph.D.
<i>Warden of Hart House</i>	J. G. Lengellé, B.A., M.A., Ph.D.
<i>Coordinator of Campus Services</i>	H. L. Reimer (Miss), B.A., P.Paed.
<i>Director of Advisory Bureau</i>	D. J. McCulloch, B.A., M.D., D.Psych., F.R.C.P.(C)
<i>Director of Athletics and Recreation (Men)</i>	A. D. White, B.A., M.Ed.
<i>Director of Athletics and Physical Education (Women)</i>	A. Hewett (Miss), B.Ed., (PE)
<i>Director of Career Counselling and Placement Centre</i>	R. Frankle (Ms), B.A.
<i>Director of University Health Service</i>	G. E. Wodehouse, M.C., M.D., F.R.C.P.(C), M.R.C.P.
<i>Director of Housing Service</i>	S. Mason (Ms), B.A.
<i>Acting Director of International Student Centre</i>	E. Paterson (Ms), B.A.

Officers of the Faculty of Arts and Science

<i>Dean</i>	R. A. Greene, M.A., Ph.D.
<i>Associate Dean</i>	C. S. Churcher, M.Sc., Ph.D.
<i>Associate Dean</i>	R. H. Farquharson, M.A., Ph.D.
<i>Associate Dean</i>	E. V. Swenson, M.A., Ph.D.
<i>Assistant Dean and Secretary</i>	W. D. Foulds, B.A.
<i>Associate Secretary</i>	R. B. Oglesby, C.D., M.A.
<i>Assistant Secretary</i>	C.R.C. Dobell, B.A.
<i>Information Systems Co-ordinator</i>	D. M. Smithers, M.A.
<i>Executive Assistant to the Assistant Dean</i>	J. M. Mills, B.A.

Officers of Erindale College (1975-76)

<i>Principal and Dean</i>	E. A. Robinson, Ph.D., D.Sc., F.C.I.C.
<i>Principal Designate (beginning July 1976)</i>	P. W. Fox, M.A., Ph.D.
<i>Budget and Planning Officer</i>	R. S. Rawlings, B.A.
<i>Executive Assistant to Principal</i>	L. E. Seppala
<i>Acting Vice-Principal</i>	R. Ross, M.A., M.B.E.
<i>Associate Dean, Centres A and D</i>	D. P. Morton, B.A., M.A., Ph.D.
<i>Associate Dean, Centre B</i>	H. W. Taylor, B.Sc., M.Sc., Ph.D.
<i>Associate Dean, Centre C</i>	H. Andrews, B.A., M.Sc., D.Phil.
<i>Registrar, Centres A and D</i>	L. T. McCormick, B.A., A.M.
<i>Registrar, Centre B</i>	G. R. Watson, B.Sc., Ph.D.
<i>Registrar, Centre C</i>	M. H. Cooper, B.A.
<i>Librarian</i>	H. L. Smith, B.A., B.L.S.
<i>Physical Plant Services Manager</i>	A. Opalinski, B.Sc., P.Eng.
<i>Campus Services Manager</i>	M. A. Dow
<i>Information and Secondary School Liaison Coordinator</i>	T. Reid, B.Sc.
<i>Director of Student Housing</i>	M. J. Lavelle, M.A., M.Ed.
<i>Student Aid Officer</i>	L. Webber
<i>Musician-in-Residence</i>	J. Loomis, A.R.C.T., M.Mus., B.Ed.
<i>Physical Education, Athletics and Recreation</i>	
- Director	R. M. Ryckman, B.A., M.Ed., Ph.D.
- Assistant Director	P. Goodson, B.A.
<i>Health Service</i>	E. G. Davies, B.Sc., Phm.B., M.D., C.C.F.P.(C)
	R. P. Davis, M.B., Ch.B., D.Obstet., R.C.O.G., C.C.F.P.(C)
	G. W. Tisdall, M.D., D.Psych., C.R.C.P.(C)
	P. D. Wardle, M.D., M.R.C.S., L.R.C.P.L.
	V. I. Degutis, Reg.N.-Co-ordinator

Erindale College Faculty

(As of 1975-76)

***Denotes Discipline Representative**

ANTHROPOLOGY

- *W. M. Hurley, B.Sc., M.S., Ph.D.(Wisconsin)
F. J. Melbye, B.A.(Washington), M.A.(S.U.N.Y.),
Ph.D.(Toronto)
A. Mohr, A.B.(California), Ph.D.(Wisconsin)
L. W. Reinhardt, B.F.A.(Maryland Inst. of Art), M.A.(Indiana)
L. L. Sample, A.B.(Whitman), Ph.D.(Wisconsin)
B. A. Sigmon, B.A.(N. Carolina), M.S., Ph.D.(Wisconsin)
R. M. Vanderburgh, B.A.(Radcliffe), M.S.(Northwestern)

ASTRONOMY

- *J. R. Percy, B.Sc., M.A., Ph.D.(Toronto)
R. Racine, B.A., B.Sc.(Laval), M.A., Ph.D.(Toronto)

BOTANY

- J. F. Ammirati, B.A., M.A.(S.F.S.U.), Ph.D.(Michigan)
*P. W. Ball, B.Sc.(London), Ph.D.(Leicester)
W. R. Cummins, B.Sc.(McMaster), Ph.D.(Michigan State)
W. G. Filion, B.A.(Queen's), M.Sc.(Guelph), Ph.D.(U.W.O.)
P. A. Horgen, B.A.(N.Iowa), M.Sc.(Iowa), Ph.D.(S.U.N.Y.)
P. B. Kauss, B.Sc., M.Sc.(Toronto)
P. F. Maycock, B.A.(Queen's), M.Sc., Ph.D.(Wisconsin)
D. Powell, B.Sc.(Toronto)
J. Svoboda, B.S.(U.W.O), Ph.D.(Alberta)
G. R. Thaler, B.Sc., M.Sc.(McMaster), Ph.D.(Toronto)

CHEMISTRY

- J. M. Deckers, L.Sc., Dr.Sc.(Louvain)
D. J. Leggett, Ph.D.(Waterloo)
M. Moskovits, B.Sc., Ph.D.(Toronto)
G. A. Ozin, B.Sc.(London), Ph.D.(Oxford)
*A. J. Poë, B.A., B.Sc., M.A.(Oxford), Ph.D., D.Sc.,
D.I.C.(London)
J. C. Poë, A.R.C.S., M.S.C., D.I.C.(London)
J. K. Reed, B.A.(Queen's), M.Sc.(U.W.O.), Ph.D.(Wisconsin)
E. A. Robinson, B.Sc., Ph.D., D.Sc.(London)
I. W. J. Still, B.Sc., Ph.D.(Glasgow)
A. Vander Voet, B.Sc., M.Sc.(Alberta)
M. A. Winnik, B.A.(Yale), Ph.D.(Columbia)

CLASSICS

- R. L. Beck, B.A.(Oxford), M.A., Ph.D.(Illinois)
T. G. Elliott, B.A.(Toronto), Ph.D.(Harvard)
*C. I. Rubincam, B.A.(Toronto), B.A.(Oxford), Ph.D.(Harvard)

COMMERCE

- J. Amernic, B.Sc., M.B.A.(Toronto)
*M. Berkowitz, B.Sc., M.B.A., Ph.D.(S.U.N.Y.)
L. J. Brooks, B.Com., M.B.A.(Toronto), C.A.
J. Dooley, B.A.Sc., M.A.Sc., Ph.D.(Toronto)
W. E. Grasham, B.A.Sc., M.A.(Toronto)
W. Honickman, B.Com.(Toronto)
R. A. Long, B.Com.(U.B.C.), M.B.A.(Washington), C.A.
D. B. Thornton, B.Sc., M.B.A.(Western), C.A.

COMPUTER SCIENCE

- *G. S. Graham, B.Sc., M.Sc.(Toronto), M.A.(Princeton)
E.C.R. Hehner, B.Sc.(Carleton), M.Sc., Ph.D.(Toronto)
A. E. Sedgwick, B.Sc.(Toronto), M.S.(Wisconsin),
Ph.D.(Toronto)

EARTH & PLANETARY SCIENCES

- D. H. Gorman, B.Sc.(U.N.B.), Ph.D.(Toronto)
*H. C. Halls, B.Sc.(Sheffield), M.Sc.(Durham), Ph.D.(Toronto)
B. N. Haugh, B.S.(Wisconsin), M.S.(Oklahoma), Ph.D.(Calif.)
M. M. Kimberley, B.Sc.(U.W.O.), Ph.D.(Princeton)
G. W. Pearce, B.Sc., M.Sc.(Memorial), Ph.D.(Toronto)
P.-Y. Robin, M.Sc.(Toronto), Ph.D.(M.I.T.)
R. Stesky, B.Sc., M.Sc.(Toronto)

ECONOMICS

- K. Acheson, B.A., Ph.D.(Toronto)
S. Eddie, B.Sc.(Minnesota), Ph.D.(M.I.T.)
J. E. Floyd, B.Com.(Sask.), M.A., Ph.D.(Chicago)
M. Fuss, B.Sc., M.A.(Toronto), Ph.D.(Calif.)
M. J. Hare, B.Com.(Toronto)
C. K. Harley, B.A.(Wooster), M.A., Ph.D.(Harvard)
*J. A. Hynes, A.B.(Johns Hopkins)
A. Kruger, B.A.(Toronto), Ph.D.(M.I.T.)
J. H. A. Munro, B.A.(U.B.C.), M.A., Ph.D.(Yale)
J. E. Pesando, B.A.(Harvard), M.A.(Calif.), Ph.D.(Toronto)
D. Pokorny, B.A.(Charles Univ.), Ph.D.(Czech. Academy of Sci.)
S. A. Rea, A.B., Ph.D.(Harvard)
F. Reid, B.A.(U.B.C.), M.Sc.(LSE), Ph.D.(Queen's)
P. G. Tomlinson, B.A.(Carleton), Ph.D.(Johns Hopkins)
R. Wintrobe, B.A.(Manitoba), M.A.(Toronto)

ENGLISH

- T. H. Adamowski, B.A.(Delaware), M.A., Ph.D.(Indiana)
J. Astington, B.A.(Leeds), M.A.(McMaster)
B. Corman, A.B., A.M., Ph.D.(Chicago)
*V. A. De Luca, B.A.(Hamilton Coll.), M.A., Ph.D.(Yale)
J. Dutka, B.A.(Alberta), A.R.C.T., (R.C.M. Toronto),
M.A. (Alberta), Ph.D.(Toronto)
D. Godfrey, M.F.A. (Iowa), M.A.(Stanford), Ph.D.(Iowa)
D. Hill, A.B.(Kenyon Coll.), M.A., Ph.D.(Columbia)
D. I. Lancashire, B.A.(Manitoba), M.A., Ph.D.(Toronto)
M. J. Levene, B.A.(Manitoba), M.A., Ph.D.(Toronto)
R. R. McLeod, A.B.(Harvard), M.A.(Toronto)
J. Skvorecky, Ph.D.(Chaules Univ.)
R. W. Van Fossen, A.B., A.M.(Duke), Ph.D.(Harvard)

FINE ART

- *L. Eileen, B.A., M.A., Ph.D.(Toronto)
B. Welsh, B.A., M.Phil.(Toronto)

FRENCH

- G. Chesneau, Lès L.(Clermont-Ferrand), C.A.P.E.S.(Paris), D.E.S.(Aix-En-Provence)
C. Cloutier-Wojciechowska, Lès L.(Laval), D. de l'U.(Paris)
M. Ducretet, L.Ph.L.(Lovanium), Agr.E.M.S.(Lovanium)
J. Le Gall, B.A.(Alberta), M.A.(Toronto)
J. C. Rault, B.A.(Sir George Williams), M.A., Ph.D.(Toronto)
A. L. Stein, B.A. M.A., Ph.D.(California)
N. J. Swallow, M.A.(Toronto), M.Phil.(Toronto)
D. A. Trott, B.A.(U.B.C.), M.A., Ph.D.(Toronto)
*H. H. Weinberg, B.A.(Roosevelt), M.A.(Northwestern), Ph.D.(Michigan)

GERMAN

- J. Bielert, B.A.(Queen's), M.A.(Toronto)
W. Meyer-Erlach, B.A., Ph.D.(Toronto)
*C. Saas, B.A.(Wisconsin), M.A., Ph.D.(Indiana)
K. O. Steinmetz, B.A.(Marburg), M.A.(Toronto)

GEOGRAPHY

- H. Andrews, B.A., M.Sc.(London), D.Phil.(Sussex)
P. Duckworth, B.A., M.A., Ph.D.(Toronto)
G.H.K. Gad, Dr. Phil.(Nurnberg), Ph.D.(Toronto)
G. Gracie, B.A.Sc.(Toronto), Ph.D.(Illinois)
A. P. Grima, B.A.(Manchester), M.A., Ph.D.(Toronto)
N. E. Hardy, B.A.(Alberta), M.A.(Kansas)
C. J. Houston, B.A., M.A., Ph.D.(Toronto)
D. Kerr, B.A.(U.B.C.), M.A., Ph.D.(Toronto)
*T. F. McIlwraith, B.A., M.A.(Toronto), Ph.D.(Wisconsin)
D. S. Munro, B.Sc., M.Sc.(McGill), Ph.D.(McMaster)
D. F. Putnam (Emeritus), B.S.A., Ph.D.(Toronto), D.Sc.
E. N. R. Roberts, B.A.(Manchester), M.A.(Queen's)
W. J. Smyth, B.A.(Dublin), Ph.D.(Nat'l Univ. of Ireland)

HISTORY

- M. Dafoe, B.A.(Manitoba), M.A.(Queen's)
T.E.J. De Witt, B.A.(Manitoba), M.A., Ph.D.(Virginia)
A. C. Glueck, B.A.(Dartmouth), M.A., Ph.D.(Minnesota)
W. A. Hayes, B.A., M.A., Ph.D.(Toronto)
R. E. Johnson, B.A.(Antioch), Ph.D.(Iowa)
C. La Vigna, B.A.(Skidmore), Ph.D.(Rochester)
D. P. Morton, B.A.(R.M.C.), B.A., M.A.(Oxford), Ph.D.(London)
R. W. Pruessen, B.A.(CUNY), M.A., Ph.D.(Penn.)
D. Raby, B.A.(Cambridge), Ph.D.(York)
R. E. Rudin, B.A.(Pittsburgh), M.A.(York)
*W. B. White, A.B.(Missouri), M.S., Ph.D.(Wisconsin)

ITALIAN

- J. A. Campana, B.A., M.A.(Toronto)
R. S. Lacentra, B.A.(Windsor), M.A.(Ohio)
L. McCormick, B.A.(Toronto), A.M.(Rutgers)
*G. Pugliese, B.A., M.A., Ph.D.(Toronto)
L. S. Tossani, B.A., M.A.(Vassar), A.B.D.(Brown)

MATHEMATICS

- D. F. Andrews, B.Sc., M.Sc., Ph.D.(Toronto)
T. Bloom, B.Sc.(McGill), M.A., Ph.D.(Princeton)
P.H.H. Fantham, M.A., D.Phil.(Oxford)
I. R. Graham, B.Sc.(Toronto), Ph.D.(Princeton)
V. Jurdjevic, B.S.(Penn. State), M.S., Ph.D.(Case Western Reserve)
W. D. Lakin, B.S.(M.I.T.), M.S., Ph.D.(Chicago)
J. E. Le Bel, B.Sc.(McGill), M.A., Ph.D.(Toronto)
T. K. S. Quon, B.Sc.(Victoria), M.A.(Princeton)
L. Rosen, B.Sc.(Toronto), M.A., Ph.D.(N.Y.U.)
F. D. Tall, A.B.(Harvard), Ph.D.(Wisconsin)
S. Tanny, B.Sc.(McGill), Ph.D.(M.I.T.)
*S. M. Trott, B.Sc.(US Naval Acad.), B.Sc., Ph.D.(Tasmania)

MICROBIOLOGY

- *A. Guha, M.Sc., Ph.D.(Calcutta)
S. K. Ng, B.Sc., M.Sc., Ph.D.(Manitoba)

MUSIC

- G. Jones, B.A.(Cardiff), M.A., Ph.D. (Cornell)
N. Rubin, B.S.(M.I.T.), A.M.(Boston), M.F.A.(Princeton)

PHILOSOPHY

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C. E. Cassin, B.A., M.A.(Oxford), M.A., Ph.D.(Florida)
L. J. Eshelman, B.Sc.(Purdue), Ph.D.(Waterloo)
W. J. Huggett, B.A., M.A., Ph.D.(Toronto)
G. P. Nagel, B.A., M.A.(S.F.U.), Ph.D.(Cambridge)
A. Rosenthal, B.A., M.A.(Manitoba), Ph.D.(Pittsburgh)
*J. T. Stevenson, B.A.(Manitoba), M.A.(Brown)
A. I. Urquhart, B.A.(Edinburgh), M.A., Ph.D.(Pittsburgh)

PHYSICS

- R. F. Code, B.Sc.(Toronto), A.M., Ph.D.(Harvard)
D. J. Dunlop, M.A., Ph.D.(Toronto)
P. P. M. Meincke, B.Sc.(Queen's), M.A., Ph.D.(Toronto)
G. E. Stegeman, B.A.Sc., M.Sc., Ph.D.(Toronto)
H. W. Taylor, B.Sc., M.Sc., Ph.D.(Manitoba)
*S. H. Vosko, B.Eng.Phys., M.Sc.(McGill), Ph.D.(Carnegie Inst.)
S.S.M. Wong, B.A.(Int'l Christian Univ. Tokyo), M.S.(Purdue), Ph.D.(Rochester)

POLITICAL SCIENCE

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*R. B. Day, B.A., M.A.(Toronto), Ph.D.(London)
R. A. Fenn, B.A.(Toronto), M.Sc., Ph.D.(London)
P. W. Fox, B.A., M.A.(Toronto), Ph.D.(L.S.E. London)
R. Gregor, B.A., M.A.(Toronto), Ph.D.(London)
A. A. Kontos, M.A., Ph.D.(Pittsburgh), Barr. at Law (Middle Temple Inn)
D. V. Smiley, B.Ed., M.Ed., M.A.(Alberta), Ph.D.(Northwestern)
J. E. Smith, A.B.(Princeton), Ph.D.(Columbia)

PSYCHOLOGY

- R. Abramovitch, B.A.(McGill), M.A.(Minnesota)
T. M. Alloway, B.A.(Knox.), M.A., Ph.D.(Northwestern)
K. Blankstein, B.A.(McMaster), M.A., Ph.D.(Waterloo)
C. M. Corder, B.A.(Davidson), Ph.D.(U.N.C.)
F. I.M. Craik, B.Sc.(Edinburgh), Ph.D.(Liverpool)
A. S. Fleming, B.Sc.(Columbia), Ph.D.(Rutgers)
L. Krames, B.A., M.A., Ph.D.(Temple)
M. Moscovitch, B.Sc.(McGill), M.A., Ph.D.(Penn)
P. Pliner, B.S.(Purdue), Ph.D.(Columbia)
R. M. Rosenbaum, B.A.(Minn.), M.A., Ph.D.(Calif.)
* B. Schneider, B.A.(Michigan), Ph.D.(Harvard)
I. M. Spigel, B.A.(New York), M.A., Ph.D.(Temple)
S. E. Trehub, B.Com., M.A., Ph.D.(McGill)

RELIGIOUS STUDIES

- L. J. Elmer, B.A., S.T.B.(Toronto), S.T.D.(St. Thomas Aquinas, Rome)
M. J. Lavalle, B.A.(Windsor), M.A.(Marquette)
S. A. Nigosian, B.A.(Toronto), M.A., Ph.D.(McMaster)
L. E. Schmidt, B.A., M.A., Ph.D.(Toronto)

SLAVIC LANGUAGES & LITERATURE

- O. Hassanoff, B.A.(Sydney), M.A.(Australian Nat'l. U.)
*K. A. Lantz, B.A.(Alberta), M.A., Ph.D.(Toronto)
N. N. Shneidman, M.P.H.E.(Minsk.), M.A., Ph.D.(Toronto)

SOCIOLOGY

- M. Blute, B.A., M.A.(Toronto)
H. N. Boughey, B.A.(Columbia), M.A., Ph.D.(Princeton)
H. J. Breslauer, B.A.(Antioch), M.A., M.Phil.(Rutgers)
D. F. Campbell, B.A.(St. Francis Xavier), M.A.,
Ph.D.(Cath. U. of America)
P. A. Eglin, B.A.(London), Ph.D.(U.B.C.)

- B. S. Green, B.A.(Brandeis), Ph.D.(York)
J. L. Hagan, B.A.(Illinois), M.A., Ph.D.(Alberta)
W. Kalbach, B.A., M.A., Ph.D.(Washington)
J. B. Kervin, B.A.(U.B.C.), Ph.D.(Johns Hopkins)
P. Lorion, B.A.(Sorbonne), M.A., Ph.D.(U.C.L.A.)
E. Silva, B.A.(S.U.N.Y.), M.A., Ph.D.(Michigan)
J. H. Simpson, B.A.(Seattle Pacific Coll.), B.D.,
T.H.M.(Princeton Theol. Sem.), Ph.D.(Stanford)
*M. W. Spencer, A.B., M.A., Ph.D.(California)

SPANISH

- O. Hegyi, Ph.D.(Toronto)
E. G. Neglia, B.A.(Roosevelt), M.A.(Illinois),
Ph.D.(Washington State)
*M. Scarth, B.A., M.A.(Toronto)
J. R. Webster, B.A.(Liverpool), M.A.(Nottingham),
Ph.D.(Toronto)

SURVEY SCIENCE

- L. A. Gale, B.A.(Queen's)
*G. Gracie, B.A.Sc.(Toronto), Ph.D.(Illinois)
R. C. Gunn, B.A.Sc., M.A.Sc.(Toronto), M.Sc.(Ohio State)
D. W. Lambden, B.Sc.(New Brunswick)
L. N. Setterington, O.L.S.
H. Turner, B.Sc.(London), M.Sc.(McGill)

ZOOLOGY

- N. C. Collins, B.A.(Pomona), Ph.D.(Georgia)
F. E. Dudek, B.Sc., Ph.D.(Calif.)
D. L. Gibo, B.A.(San Fernando Valley State Coll.), Ph.D.(U. Cal.)
*G. K. Morris, B.S.A.(Guelph), M.Sc., Ph.D.(Cornell)
D. O'Day, B.Sc., M.Sc.(U.B.C.), Ph.D.(Delaware)
P. J. Pointing, B.Sc.F., Ph.D.(Toronto)
R. R. Reisz, B.Sc., M.Sc., Ph.D.(McGill)
B. I. Roots, B.Sc., Ph.D.(London)
W. G. Sprules, B.Sc.(Queen's), M.A., Ph.D.(Princeton)
C. J. Whitcombe, B.Sc.(Queen's)

Principal's Message

1976-77 is a particularly special year for Erindale College in that the campus will welcome its tenth freshman class, at the same time that the University of Toronto, as a whole, is celebrating its one hundred and fiftieth anniversary. This year should be a memorable one for the academic community at Erindale and it will be highlighted by a number of special events marking both the first decade at Erindale and the century and a half's progress of Canada's largest university.

During its first ten years, Erindale has grown rapidly so that now its population comprises more than 3600 full-time and 1000 part-time undergraduates, approximately 200 faculty, many graduate students and teaching assistants, and several hundred support and administrative staff. In this relatively short time the Erindale Campus of the University of Toronto has established itself as an important centre for teaching and scholarship, bringing to Mississauga the kind of opportunities that only the University of Toronto can provide. At the same time, the Erindale Campus has added to the variety of choices available within the University of Toronto because it combines the advantages of membership in a large university of international reputation and national prestige with the special qualities available only within a close-knit community of manageable size, where the needs of individuals are recognized as having very high priority.

Erindale College is fortunate in having a campus of considerable natural beauty that has been enhanced by well designed buildings and facilities that were planned to provide an environment especially suited to the needs of the undergraduate student. Excellent academic facilities are supplemented by a limited number of student residences, in the form of town houses, and athletic facilities. The Erindale College Student Union (ECSU) plays an active part in College governance and promotes many extra-curricular activities to meet the widest possible spectrum of student interests. Its efforts are complemented by those of the Erindale College Athletic and Recreation Association (ECARA), which has a prime responsibility to respond to the wishes of students to participate in individual and team sports. Athletic competition is available both within Erindale (for example, between College Centres) and with the remainder of the University of Toronto's colleges and other institutions.

The 1976-77 academic year will also be special because the College welcomes my successor as Principal, Professor Paul Fox. I know that the College community will give Principal Fox the same kind of support and loyalty that I have enjoyed during my ten year commitment to administration at Erindale. I hand on to my successor a rather special kind of academic community, the product of so much effort by many faculty, students and staff during the last decade, and I know that I can step down in the sure knowledge that Erindale will continue to be known, not only for its excellence, but also for its generosity and humanity in interactions between members of its community.

I extend a special welcome to those who will be coming to Erindale for the first time, and I wish every member of the College a continuing full participation in all that the campus has to offer.

*E. A. Robinson
Principal*

Centres of Erindale College

The registrarial and academic counselling services at Erindale are organized around four Centres, two located in the North Building and two in the South Building. The purpose of the Centre is to provide closer contact between administrators, faculty and students than would be possible with a centralized registrar's office to serve nearly 3600 full-time and 1000 part-time students.

Each Centre is administered by an Associate Dean and a Registrar and has associated with it a number of disciplines. Initially you will be assigned to a Centre on the basis of your academic interest, but you are free to change affiliation if you so wish.

Although the Centres are relatively new, we hope that they will provide a number of possibilities for improving the quality of life at Erindale that would not occur without them. For example, the Athletic and Recreation Department conducts an intramural league whereby Centres compete in a number of sports. We also hope that each Centre will become the focus for a number of other recreational and cultural activities and academic interests. If there are things missing from the life at Erindale that you would like to see initiated, get together with your Registrar or Dean and let him know.

The Centres are organized as follows:

NORTH BUILDING

Centre A (Room 216)

Anthropology

Classics

Drama

English

Fine Art

French

German

History

Italian

Linguistics

Music

Philosophy

Religious Studies

Slavic Studies

Spanish

SOUTH BUILDING

Centre B (Room 2037)

Astronomy

Biology

Chemistry

Computer Science

Earth and

Planetary Science

Mathematics

Physics

Psychology

Statistics

Centre C (Room 2122)

Commerce

Communications

Economics

Geography

Political Science

Sociology

Survey Science

Centre D

North Building (Room 216)

Part-time students

With minor exceptions, Centre A is responsible for students of the Humanities, Centre B for students of the Physical and Life Sciences and Centre C for students of the Social Sciences. Centre D meets the special needs of part-time students in all disciplines.

Admission Requirements

Full details of the University of Toronto undergraduate admission requirements for 1977 are contained in the Undergraduate Admission Handbook 1977-78, available on request from the Office of Admissions, University of Toronto, 315 Bloor St. West, Toronto, Ontario, Canada, M5S 1A3, (978-2190), and in all Ontario secondary schools. Further information is also available from the Secondary School Liaison Office at Erindale College (828-5217). The 1976 requirements follow:

Basis of Admission

Entrance to the First Year of the undergraduate courses is offered, depending upon the number of places available, to candidates from Ontario secondary schools who demonstrate good standing, based upon the following evidence:

1. Completion of secondary school studies, including a full programme of academic work at the Grade XIII level.
2. A recommendation by the secondary school last attended regarding probable success in University studies.
3. A complete academic report for the last three years of secondary school.

Regular Students Applying Directly from Ontario Secondary Schools

Admission Requirements

Students in Ontario Secondary Schools who are considering applying for admission to the University, should consult their Principal or Guidance Officer as early as possible.

In selecting their secondary school programmes, students should be guided by the following principles:

1. They should study in as many of the following areas as possible but not less than two of the first four: English, French or another language, Mathematics, Sciences, and Social Studies.
2. They should consider carefully the prerequisite requirements for certain studies at the university level.

The following points should also be noted:

1. The minimum average for admission consideration is 60%, but because of limited enrolment and competition for places, an average above 60% will probably be required.
2. The University of Toronto does not specify the minimum number of years to be spent in secondary school. If a school's organization permits certain students to complete their studies at the end of Grade XIII in fewer than five years, applications will be welcomed from those students.
3. If a student repeats Grade XIII studies, the University expects correspondingly higher standing; extenuating circumstances are considered if reported by the school.
4. Applications are considered from students whose credentials do not comply with the entrance requirements of the University, but as fully qualified applicants outnumber the entrance places annually available, such students are expected to offer evidence of exceptional attainments to compensate for entrance deficiencies.

Application Procedures

Candidates currently in Ontario Grade XIII should apply through their secondary school using the general application form for admission to an Ontario university. Applications should be submitted as early as possible in the year for which the applicant seeks admission but not later than the following dates:

Summer Session — First term
Summer Session — Second term
Full-time studies, Winter Session
Part-time studies, Winter Session

Thursday 1 April 1977
Saturday 15 May 1977
Tuesday 1 June 1977
Wednesday 30 June 1977

Regular Students Applying from Other Areas

Candidates offering Senior Matriculation programmes from provinces other than Ontario should either contact the Office of Admissions or consult the Undergraduate Admission Handbook.

Regular Students Transferring from Another Faculty

Regular students who have been registered in another Faculty and who wish to transfer to the Faculty of Arts and Science must apply for admission through the Office of Admissions.

Special Students

Special students are those who are not proceeding to a degree offered by the Faculty. Such students may be taking courses for credit at another university or other Faculties within the University of Toronto.

Students who wish to continue in the Faculty after obtaining a Four-Year degree will register as Special Students.

Applicants for admission as Special Students who have not previously been admitted to the Faculty of Arts and Science and those who have not obtained standing of at least one half credit in the Faculty, must submit an application for admission to the Office of Admissions. Such Special Students must take all their courses on the campus to which they were admitted.

Admission as a Non-Matriculant

An applicant who is at least 21 years of age, but who has never attempted an Ontario Grade XIII programme or its equivalent, and who has been a resident of Ontario for at least one year may request admission as a "non-matriculant" on the basis of demonstrated ability and experience and completion, with high standing, of at least one of the Pre-University courses offered by Woodsworth College on both the St. George and Erindale campuses. A birth certificate must be submitted by such applicants.

As the successful completion of a Pre-University course does not in itself ensure selection, a candidate who wishes to apply as a non-matriculant should consult the Office of Admissions regarding eligibility before enrolling in one of the Pre-University courses.

Admission with Transfer Credit

Undergraduates of other universities may be admitted with transfer credit if they have obtained high standing in their previous studies, and if they have obtained credit in one or more courses the content of which is considered to be equivalent to that of courses offered by this Faculty. Applicants for admission with transfer credit should write to the Ontario Universities Application Centre, Box 1328, Guelph, Ontario (519-823-1940) enclosing a copy of their secondary school transcript and of their transcript for all post-secondary studies. All such transcripts should show the specific courses which have been completed, and the grade or mark obtained in each course. Undergraduates of the University of Toronto and of other faculties or schools of this University should apply to the Office of Admissions and give details of previous studies.

Senior Citizens

Senior Citizens may enrol in courses for credit towards a degree at no charge. They should contact the Office of Admissions for complete details and assistance.

Degrees

The following degrees are offered:

Degree	Abbreviation	Number of Credits Required
Bachelor of Arts (Three-Year)	B.A.	15
Bachelor of Arts (Four-Year)	B.A.	20
Bachelor of Science (Three-Year)	B.Sc.	15
Bachelor of Science (Four-Year)	B.Sc.	20
Bachelor of Commerce	B.Com.	23

Courses and Credits

Courses are identified by a three letter prefix, a three digit number and a single letter suffix. The number generally indicates the level of difficulty of the course; e.g. a 100-series number would normally indicate an introductory course. The single letter suffix indicates the credit value and the period over which the course is offered. The suffixes are explained under "Academic Programmes".

Old Regulations

The following regulations apply *only* until the end of the 1976 Summer Session.

Requirements for B.A. Degree (Three-Year)

Students will be entitled to receive a Bachelor of Arts degree (Three-Year) when they have:

1. Obtained standing in fifteen credits. No more than six of these credits may be in the 100-series courses and at least three must be 300- or 400-series courses.
2. Obtained a final mark of 60% or better (i.e. a grade of 'C' or higher) in each of at least eight of the fifteen courses. Of the eight credits at least four must be 200- or higher-series courses.

Requirements for B.A. Degree (Four-Year)

Students will be entitled to receive a Bachelor of Arts degree (Four-Year) when they have:

1. Qualified for the B.A. degree (Three-Year) and
2. Obtained an additional five credits within the first six attempts (i.e. a total of twenty credits). Of the five credits, at least three must be in 300- or 400-series courses.
3. Obtained a final mark of 60% or better (i.e. a grade of 'C' or higher) in each of at least four of the five additional credits.

Requirements for B.Sc. Degree (Three-Year)

Students will be entitled to receive a Bachelor of Science degree (Three-Year) when they have:

1. Completed the requirements for the B.A. degree (Three-Year) and
2. Included in the nine or more 200- or higher-series courses, at least six courses with one or more of the following designations: ANT*, APM, AST, BIO, CHM, CSC, EPS, GGR*, MAT, PHY, PSY, STA, SUR*.

* Only selected courses qualify. See Faculty Advisor for details.

Requirements for B.Sc. Degree (Four-Year)

Students will be entitled to receive a Bachelor of Science degree (Four-Year) when they have:

1. Qualified for the B.Sc. degree (Three-Year) and
2. At the first six attempts completed an additional five credits (i.e. a total of twenty credits). Of these five credits, at least three must be in 300- or 400-series courses.

3. Obtained a final mark of 60% or better (i.e. a grade of 'C' or higher) in each of at least four of the five additional credits.
4. Included in the fourteen or more 200- or higher-series courses at least nine credits from the list given in paragraph 2 above of the Requirements for the B.Sc. degree (Three-Year).

Requirements for B.Com. Degree

Students will be entitled to receive a Bachelor of Commerce degree when they have:

1. Qualified for a Three-Year degree and
2. Obtained standing in twenty-three credits which must include:
 - At least seven credits in Commerce.
 - At least seven credits in Economics.
 - At least four credits other than Commerce or Economics, two or more of which must be 200- or higher-series, and a course in Mathematics (Calculus).
3. No more than six 100-series courses can be taken in the four-year programme.

Note: One 100-series course may be taken in Fourth Year only if no more than five have been taken previously. This applies to all four-year degrees.

New Regulations

The following regulations apply from the beginning of the 1976–1977 Winter Session.

“Courses” means full-course equivalents. GPA is described under “Academic Records”.

Requirements for a Three-Year Degree

Students will be qualified for a Bachelor of Arts or a Bachelor of Science degree when they have:

1. Obtained standing in fifteen courses including no more than six 100-series courses, and no fewer than three 300- or 400-series courses. A grade of C- (60-62%) or higher must be obtained in three 300- or 400-series courses.
2. A cumulative GPA of 1.50 or more.
3. For a Bachelor of Science degree, included in the nine or more 200- or higher-series courses, at least six courses with one or more of the following designations:
ACT, ANT*, AST*, APM, BCH, BIO, CHM, CSC, ECO*, GLG, GGR*, JAZ*, JBM*, JLM*, JPA*, JPZ*, MAT, MPL, NEW*, PHY, PSL, PST, PSY, STA, ZOO*.

*Only selected courses qualify. See Faculty Advisor and consult the St. George calendar for details.

Note: Students who choose to receive a Three-Year degree may qualify only for a Four-Year degree in the same field, i.e. a Three-Year B.A. leads only to a Four-Year B.A., and a Three-Year B.Sc. to a Four-Year B.Sc.

Requirements for a Four-Year Degree

Students will be qualified for a Bachelor of Arts (Four-Year) or Bachelor of Science (Four-Year) degree when they have:

1. Obtained standing in twenty courses including no more than six 100-series courses, and no fewer than six 300- or 400-series courses. A grade of C- (60-62%) or higher must be obtained in six 300- or 400-series courses.
2. A cumulative GPA of 1.50 or more.
3. For a Bachelor of Science degree, included in the fourteen or more 200- or higher-series courses, at least nine courses from those listed as acceptable for the Three-Year B.Sc.

Note: Students who choose to receive a Three-Year degree may qualify only for a Four-Year degree in the same field, i.e. a Three-Year B.A. leads only to a Four-Year B.A., and a Three-Year B.Sc. to a Four-Year B.Sc.

Requirements for a Bachelor of Commerce Degree

Students will be entitled to receive a Bachelor of Commerce degree when they have:

1. Obtained standing in twenty-three credits which must include:
 - At least seven credits in Commerce.
 - At least seven credits in Economics.
 - At least four credits other than Commerce or Economics including two or more 200- or higher-series courses and a course in Mathematics (Calculus).
2. A cumulative GPA of 1.50 or more.
3. No more than six 100-series courses may be included and no fewer than six 300- or 400-series courses of which at least six have been passed with a grade of C- (60–62%) or higher in each.

Note: Students who receive a Three-Year degree at Convocation will not receive a second degree or attend a second convocation if they subsequently qualify for a Four-Year degree. A notation, however, will appear on their transcripts indicating that they have qualified for the Four-Year degree.

Academic Programme Selection

The curriculum in Arts and Science is based on the principle that students should be allowed equal access to academic resources of the highest quality and the greatest range, so that they can investigate many fields of learning and develop their own particular interests and abilities. When students are admitted therefore, they are not required to make a commitment to a particular type of programme but may select any courses for which they have the necessary preparation. One advantage of this curriculum is that it enables students whose interests change to move from one field of study to another with the least possible disruption and loss of time. This flexibility does not mean, however, that students should be casual about their selection of courses.

A student entering the Faculty of Arts and Science has a free choice from among all the courses offered to first year students. Thus he does not need to make an irreversible decision to be in *Arts* or *Science* or to follow a three or a four year course of study. These difficult decisions can now be made at various points of a student's progress through the University in terms of new and developing interests and levels of achievement.

It should be noted that the flexibility of choice now available to students does not prevent a student with definite aims and developed interests from following them from the start. It is hoped that even students with determined ideas will take the opportunity offered to explore unfamiliar areas of knowledge.

All students are urged to seek advice from their Registrar or a Faculty Advisor before final selection of a programme of studies.

Ideally, a programme of study should not be just a collection of courses but, at least potentially, an organic unity. Students should acquaint themselves with suggested programmes (listed later in the Calendar) and consider whether any of them meet their academic objectives.

Affiliation with one or more approved programmes is recommended to students as a means of organizing their degree studies. However, there is no obligation upon students to follow such programmes as there are many other ways in which courses may be selected from the very large number available to produce an academically viable programme. Some students may wish, for example, to devise programmes united by a theme of specific interest to them. Wherever possible students planning their own programmes should confer with the individual instructors about the content and requirements of the courses, preferably before term begins.

The suggested programmes are of two types:

(a) **Specialist Programmes** of nine or more courses which may involve

- (i) intensive work concentrated in a single discipline, or
- (ii) intensive work integrating two or more cognate disciplines, or
- (iii) intensive work which may involve several disciplines but which is organized thematically.

While some specialist programmes include a wide range of options (e.g. in the Social Sciences) others require specific preparation in the first two years (e.g. in the Physical Sciences). A Faculty Advisor is named in the calendar for each discipline and should be consulted by interested students as early as possible for information about required courses.

(b) **Minor Programmes** of six to eight courses which are less intensive and, in some cases, less rigorous than specialist programmes and which may involve

- (i) work emphasizing a single discipline, or
- (ii) work in several disciplines but which is organized thematically.

Certification

Students who intend to follow a suggested programme of study are urged to register their intention with the sponsoring department or college or with the programme advisor/co-ordinator at least by the beginning of their second year to receive proper counselling and should try to select at least one course in this subject in their first year.

Student who wish to have certification of the successful completion of a programme of study entered on their transcripts must make application to the appropriate department, college, or programme co-ordinator at the beginning of their final year in the programme.

On request, a student may be allowed to specialize in two disciplines, provided only that no discipline or field of study may be repeated in the two certifications.

Courses

The following designations apply to both Summer and Winter Sessions:

Full Courses (one credit each)

- Y courses extend over the whole session.
- A courses are taken entirely in the first term.
- B courses are taken entirely in the second term.

Half courses (one-half credit each)

- H courses extend over the whole session.
- F courses taken entirely in the first term.
- S courses are taken entirely in the second term.

Course Selection

The degree requirements may be met by a selection of courses with as high a level of specialization or as great a diversity as the student chooses, subject only to the general constraints upon the number of 100 and higher-series courses outlined under "Degrees".

"100-series" courses are available to students in all years. No more than a total of six may be taken for degree credit.

Certain "200-series" and "300-series" courses are available to first year students. Such courses are designated by the Roman numeral (I) which appears below the course number. Students in second or higher years may choose any course for which they have the prerequisite(s).

In their selection of courses, all students should note that various courses carry prerequisites and/or corequisites. Some courses are open only to students who have progressed to a specified stage in their degree studies, who have the required combinations of prerequisites or corequisites, or who have permission of the instructor.

Some courses are likely to attract more students than can be accommodated if a proper standard of instruction and learning is to be maintained. Restrictions on enrolment in such courses may be unavoidable; therefore, students should seek advice and make their selection of courses as early as possible. In those courses with advertised enrolment limits, students registered in an approved programme for which the course is required may be given priority in the event of over-enrolment.

The courses listed in this calendar are subject to revision or withdrawal if necessary. Several courses have been given new numbers. Students may not enrol in and receive credit for the same course twice, even if it has a different number. Any two half courses may be combined to form a full course credit.

Under certain conditions, Erindale College students may enrol in a restricted number of courses on the St. George campus or in other Faculties of the University of Toronto. In all cases, approval must be sought from the Registrar, the Faculty Advisor at Erindale and the appropriate Undergraduate Secretary at St. George. Consult the Registrar for details.

Complete time-table information for courses offered in this Calendar is available separately. Included will be day, time and place of the class and the instructor's name. The most recent time-table information can be obtained in the offices of the Principal, the Deans and the Registrars during the year.

The letters in the upper right-hand corner of each course description indicate whether the course involves lectures (L), seminars (S), tutorials (T) or practicals or laboratories (P). The number of hours of each is also indicated.

Counselling about course selection may be obtained from the Registrars, the Deans, the Faculty Advisors and individual instructors. Many departments also produce brochures outlining their courses and programmes in more detail than is possible in the Calendar.

The Career Counselling and Placement Centre of the University can also help with a career planning perspective on course selection in addition to information about full-time or part-time job opportunities for summer or winter. A counsellor usually visits Erindale once each week (appointments may be made in Room 3094).

Registration and Enrolment

Regular Students

All students proceeding to a degree in the Faculty of Arts and Science will be required to register in one of: Erindale College, Innis College, New College, Scarborough College, St. Michael's College, Trinity College, University College, Victoria College or Woodsworth College. No student can register without being admitted initially by the Office of Admissions.

The registration process is considered complete upon payment of fees for the session and receipt of a student registration card. Complete details of the registration process at Erindale College are included in the undergraduate procedures handbook, which is available from the Registrars' offices.

Regular students who have achieved standing in at least one half credit in the Faculty, but have not been in attendance for one or more sessions, do not re-apply for admission, but apply for re-registration through their Registrar.

Special Students

Special students who were in attendance in the previous session should consult their Registrar for registration procedures.

Returning Special Students who were not registered in any session of the preceding year, but have standing of at least one half credit in the Faculty must *apply* for re-registration through their Registrar.

Registration Deadlines

The dates for registration are:

Mon. 22 March 1976	Registration for Summer Session begins.
Fri. 30 April 1976	Last date for former students with standing in the Faculty and who were not in attendance in the preceding Summer or Winter Session to re-register in order to enrol in A, F, H and Y courses in Summer Session.
Fri. 14 May 1976	Last date for registration for students taking A, F, H and Y courses in the Summer Session. After this date, a late registration fee will be imposed.
Fri. 18 June 1976	Last date for former students with at least one half credit in the Faculty and who were not in attendance in the 1975 Summer or 1975/76 Winter Sessions to re-register in order to enrol in B and S courses in the Summer Session.
Wed. 30 June 1976	Last date for registration in B and S courses in the Summer Session. After this date a late registration fee will be imposed.
Mon. 5 July 1976	Registration for Winter Session begins.
Fri. 30 July 1976	Last date for former students with standing in the Faculty and who were not in attendance in the preceding Summer or Winter Sessions to re-register in order to enrol in A, F, H and Y courses in the Winter Session.
Fri. 10 Sept. 1976	Last date for registration in the Winter Session. After this date, a late registration fee will be imposed.

Late Registration Fee

Any student who registers after the appropriate date quoted above will be charged a late registration fee of \$10.00, and for each day thereafter, the fee is an additional \$1.00.

No student may register and enrol late except by petition through the Registrar and such petition must be accompanied by the late registration fee.

Student Registration Card

The student Registration Card is a plastic wallet-sized card, embossed with the student's number and is required for: identification purposes within the University, evidence that the student is registered in the Faculty and a particular College, participation in student activities, library privileges, Athletic Association privileges and identification at University examinations.

The loss of the registration card must be reported promptly to the student's Registrar in order to obtain a replacement. Students who withdraw from a session or transfer to another College or division, are required to return their registration card to their Registrar to effect withdrawal or transfer.

The Registrar is unable to authorize any refund of fees until he receives from the student confirmation of withdrawal. If the student withdraws from all courses, the registration card must be returned to the Registrar.

Rate of Progress Towards the Degree

Number of Courses Which May Be Taken in the Summer Session

Registration for degree credit in the Summer Session will be open to all students not under suspension. The following limitations will apply:

1. No more than a total of two full courses or their equivalents may be taken during the session.
2. No more than a total of one and one-half courses or their equivalents may be undertaken in any one term with the exception that students enrolled in the University of Toronto courses given at foreign Universities may take two courses.

Number of Courses Which May Be Taken in the Winter Session

Five credits, with a maximum of six courses per term, are regarded as the normal load for full-time study. For purposes of counting "courses by term", each full course (Y), each (F) course

and each (S) course counts as one; each (H) course counts as a half, and each (A) or (B) course counts as two.

Three and one-half credits is the maximum load for part-time students in the Winter Session.

Overload Courses

The following are the regulations regarding eligibility for overload courses:

1. A student on probation is limited to five courses in the next winter session but may not exceed a course load of six in any term.
2. A student in good standing may be allowed to take six courses in a winter session but may not exceed a course load of six in any term.
3. A student with a sessional GPA of 3.30 or more may be allowed to take up to six and a half courses in a winter session, but may not exceed a course load of seven in any term.
4. A student with a sessional GPA of 3.70 or more may be allowed to take up to seven courses, but may not exceed a course load of seven in any term.

Students admitted originally to part-time study with standing lower than that required for full-time study, may register in no more than three and one-half credits in the Winter Session.

As of the 1977-78 Winter Session, all students who had been admitted to part-time studies, and who at the time of admission did not hold the requirements for admission to full-time studies, may apply to transfer to full-time studies only after successfully completing at least four full courses offered in this Faculty with a cumulative GPA of 2.00 (63%).

Credit of Courses Towards the Degree

All courses in which Regular students are registered will be for degree credit unless:

1. The number of courses being attempted will cause them to exceed the number required for a four-year degree, in which case, the additional courses will be designated as "extra" when recorded on the transcript:

or
2. The course is a 100- or 200- level course and the maximum number of such courses allowable for degree credit has already been completed; in which case, the course will be designated "extra" when recorded on the transcript.

Courses may not be recorded as "extra" retroactively.

Adding and Dropping Courses

A student who wishes to add or drop a course *must* do so through the office of the Registrar. A student may discontinue a course without failure if he makes the necessary application by the following dates. Details of courses discontinued before these dates will not appear on the student's academic record. The last date to add a course to a programme is also indicated below.

Summer Session

- | | Drop | Add |
|--|-------------------|-------------------|
| Full (Y) courses [which extend over the whole session] | Friday 9 July/76 | Friday 28 May/76 |
| Full (A) courses [taken in first term] | Friday 4 June/76 | Friday 21 May/76 |
| Half (H) courses [which extend over the whole session] | Friday 9 July/76 | Friday 28 May/76 |
| Half (F) courses [taken in first term] | Friday 4 June/76 | Friday 21 May/76 |
| Full (B) courses [taken in second term] | Friday 23 July/76 | Friday 9 July /76 |
| Half (S) courses [taken in second term] | Friday 23 July/76 | Friday 9 July/76 |

Winter Session

- | | Drop | Add |
|--|-------------------|--------------------|
| Full (Y) courses [which extend over the whole session] | Friday 14 Jan./77 | Friday 16 Oct./76 |
| Full (A) courses [taken in first term] | Friday 22 Oct./76 | Friday 24 Sept./76 |
| Half (H) courses [which extend over the whole session] | Friday 14 Jan./77 | Friday 1 Oct./76 |
| Half (F) courses [taken in first term] | Friday 22 Oct./76 | Friday 24 Sept./76 |
| Full (B) courses [taken in second term] | Friday 11 Feb./77 | Friday 14 Jan./77 |
| Half (S) courses [taken in second term] | Friday 11 Feb./77 | Friday 14 Jan./77 |

After the above dates students may only enrol in or withdraw from a course without failure by petitioning through their Registrar to obtain approval of the Committee on Standing. This will be permitted only in exceptional circumstances. Courses which are dropped and for which approval to withdraw without failure was granted will appear on the academic record of students with the notation "W" against them.

Transfer Between Colleges

Students who wish to transfer to other Colleges for the following Winter Session should consult their Registrar before June 1st. Students will be expected to present substantial reasons for such a request on the basis of genuine "academic need" accompanied by evidence of above average academic achievement (B+ average). All requests will be considered the Faculty Committee on Admissions.

Letters of Permission

A student who has obtained standing in at least one half-course in the Faculty, and who finds that he will be living, temporarily, at such a distance from any of the three campuses of the University that it will be impossible for him to attend lectures offered by the Faculty, may request a "letter of permission" to enrol at another university in one or more courses for "credit" towards the first ten courses of his degree Programme.

A student should request a "letter of permission" through the Registrar *before* he registers at another university.

Petitions

The regulations of the Faculty and its requirements for a degree should be observed carefully by each student; failure to observe these regulations can result in academic and/or financial penalties. However, where a student has genuine difficulties complying with a particular regulations, the Faculty will entertain a petition requesting that the regulation be waived. Petitions are initiated in the offices of the Registrars and are considered in confidence by the Committee on Standing which is charged with interpreting and administering the regulations of the Faculty including, in special circumstances, granting exceptions and attaching conditions.

Examinations

Dates of Final Examinations

Examinations will be held at the following times:

Summer Session

Monday 16th August 1976 to Friday 20th August 1976.

Winter Session

In A and F Courses and term tests in multi-sectioned H and Y Courses — Monday 13th December 1976 to Wednesday 22nd December 1976.

In B, H, S, and Y Courses — Monday 18th April 1977 to Friday 6th May 1977.

Final examinations will normally be held in 100-series courses.

Examination Timetables

A provisional examination timetable will be available after the following dates:

— second term Monday 14th March 1977

Students are advised to consult the provisional timetables and to inform the Registrar's Office, Room 2122, South Building of any conflicts.

A final examination timetable will be available after the following dates:

Summer Session

Friday 3rd August 1976

Winter Session — first term

Monday 29th November 1976

— second term

Monday 28th March 1977

Information regarding examinations will *not* be provided by telephone. It is the student's responsibility to acquire the correct timetable information.

Attendance and Examinations

Students proceeding to a degree in their programmes are required to attend the courses of instruction and the examinations in all subjects. Students whose attendance at lectures or laboratories or whose work is deemed to be unsatisfactory, may receive a failing grade or may have their registration cancelled at any time by the Council of the Faculty of Arts and Science.

No candidate will be admitted to examinations unless the Registrar certifies that he has complied with all the requirements of the College.

Students may not rewrite examinations in courses which they have already obtained a passing grade.

Examination Procedures

1. Students are required to write under examination numbers which are assigned in the examination room.
2. During examinations, students will be asked to sign a record of attendance listing their examination number and name and to identify themselves to the presiding officer. For this reason, candidates are required to produce their registration card when writing examinations.

Rules for the Conduct of Examinations

1. No persons shall be allowed in a room during an examination except the candidates concerned and those supervising the examination.
2. Candidates must appear at the examination room at least twenty minutes before the commencement of the examination.
3. Candidates shall bring their registration cards and place them in a conspicuous place on their desks.
4. Bags and books are to be deposited in areas designated by the Presiding Officer and are not to be taken to the examination desk or table. Handbags may be disposed of by placing them on the floor underneath the chair.
5. The Presiding Officer has authority to assign seats to candidates.
6. No unauthorized material shall be brought into the room or used at an examination except by direction of the Presiding Officer.
7. Candidates shall not communicate with one another in any manner whatever during the conduct of the examination.
8. Candidates who bring any unauthorized material into an examination room, or who assist or obtain assistance from other candidates or from any unauthorized source, may not be permitted to write the remaining part of the examination or any subsequent examinations. Such candidates are also liable to penalties including expulsion under the Code of Behaviour. (See p. 40.)
9. Except with the consent of the Registrar, candidates shall not be permitted to enter an examination room after thirty minutes from the commencement of the examination.
10. Candidates shall not be permitted to leave the examination room, except under supervision, until at least thirty minutes after the commencement of the examination.
11. Candidates in writing out their answers shall write on the ruled pages only and shall number their answers to correspond to the questions. On the outside of each book, candidates shall write their examination number and the course code of the examination; and shall number each book, indicating the total number of books used. Rough work may be done on the unruled pages. All written work must be handed in.

12. Candidates will not leave the examination room during the final ten minutes of an examination.
13. At the conclusion of an examination, all writing within the answer books will cease, and the Presiding Officer may refuse to accept the papers of candidates who fail to observe this requirement.
14. No examination books and other material issued for the examination will be removed from the examination room without the authority of the Presiding Officer.
15. Smoking in the examination room is not permitted.

Aegrotat or Special Consideration

If the ability of a student to complete a course or sit a final examination, is affected by illness or domestic problems occurring after the final dates listed above, a petition may be made through the Registrar. If there are adequate grounds for the petition, the Department concerned will determine the status of the work done by the student and the steps, if any, that must be taken in order to complete the course.

Such petitions must be filed with the Registrar on or before 5:00 p.m. on the last day of the relevant final examination period, together with a medical certificate which includes a statement that the candidate was examined at the time of the illness, or other evidence to support the petition. If necessary, the medical certificate or other supporting evidence may follow within two weeks, but the petition must be submitted before the examination period ends.

Academic Records

Standing in a Course

Old Regulations (applicable until the end of the 1976 Summer Session)

The following scale of marks and grades will be used for all courses and half-courses.

Marks	Grade
80%–100%	A
70%–79%	B
60%–69%	C
50%–59%	D
below 50%	Fail

The final mark in the 100-series courses will normally be made up of a term mark and an examination mark, with the restriction that not less than one-third nor more than two-thirds of the final mark will be based on term work.

New Regulations (applicable from the beginning of the 1976 Winter Session)

The following scale of marks, grades, and grade points will be used for all courses and half-courses.

Percentages	Grade	Grade Points
90–100	A+	4.3
85–89	A	4.0
80–84	A–	3.7
77–79	B+	3.3
73–76	B	3.0
70–72	B–	2.7
67–69	C+	2.3
63–66	C	2.0
60–62	C–	1.7
57–59	D+	1.3
53–56	D	1.0
50–52	D–	0.7
35–49	F+	0.3
0–34	F	0

Averaging

Beginning in September 1976 a *sessional Grade Point Average (GPA)* will be computed by dividing the grade point values earned during the session by the number of courses attempted during the session. A *cumulative GPA* will be computed by dividing the total number of grade point values accumulated by the total number of courses attempted.

In computing the GPA a half course will carry half the weight of a full course, and grades for all courses taken will be included, except those for Pass/Fail courses, extra courses, and transfer credits.

Note: The May 1977 sessional GPA will be treated as a cumulative GPA for the purposes of implementing the regulations regarding Probation, Suspension, and Refusal of Further Registration.

Checking of Marks

Courses with faculty final examinations —

After the issue of final results and within six months of the final examination period a student may request from the Faculty Office a reproduction of his final examination for a fee of \$5.00 to cover costs. If he subsequently wishes to have his paper re-read and/or a clerical check of his marks made he must set down his reasons and petition to the Faculty within six months after the final examination period.

Courses with no faculty final examinations —

Within the period specified above a student may request to have a clerical check of his marks made upon payment of a \$5.00 fee to cover costs. If an error is discovered and the mark changed upwards, the fee will be refunded.

Student Records

Information recorded by the Registrar at the time of registration is used to issue marks and transcripts. Inaccurate or out-of-date information could cause serious inconvenience, such as a delay in receiving awards, results or transcripts.

Students must report immediately to the Registrar any changes in the following:

- (a) Programme of studies (courses), including any change in the number or section of a course in which they are enrolled.
- (b) Permanent or home address.
- (c) Address during the session.
- (d) The address to which results are to be sent.
- (e) Telephone number.
- (f) The name and address of next of kin.
- (g) Citizenship and status in Canada.
- (h) Marital status.
- (i) Name (legal proof must be presented).
- (j) Social insurance number.

Transcripts

Copies of a student's transcript of academic record will be issued upon request, subject to reasonable notice and a nominal copying fee. Transcript request forms may be obtained from the Erindale College Registrar's offices.

There is no charge for transcripts issued within the Faculty or to other faculties or divisions of the University of Toronto. A fee of \$1.50 (including tax) for the first copy plus 50c (including tax) for each additional copy ordered at the same time will be charged to students who wish to receive their own transcript or order copies to be sent to other universities or institutions. Such transcripts will not be issued without prepayment.

Probation, Suspension and Refusal of Further Registration in the Faculty

Students in the Summer Session 1976 will be subject to the regulations regarding probation, suspension and refusal of further registration in the Faculty as described below.

Probation

A student who

1. fails two or more courses in any session, *or*
2. at the end of any session including or subsequent to that in which the fourth course is attempted, has obtained a grade C or higher in less than 50% of the course attempts since beginning studies leading to a degree will be placed *on probation* for the next five course attempts or until the end of the session in which the fifth subsequent course is attempted.

A student on probation may register in no more than five courses in the winter session and a Third year student on probation may attempt only those courses necessary for the completion of a Three-Year degree. While on probation a student must (re-)gain or maintain the required 50% of C's over all course attempts since beginning studies leading to the degree.

Suspension

A student will be *suspended* from registration in the Faculty *for one calendar year* while on academic probation if

1. he fails two or more courses; *or*
2. he does not (re-gain) or maintain the required 50% of C's within the probationary period. Suspension will occur at the end of any session when it becomes impossible for him to maintain the 50% of C grades.

A student returning from a one-year suspension

1. may register in no more than five courses in the Winter Session;
2. a Third year student may register only in those courses necessary for the completion of a Three-Year degree;
3. will be placed on probation for the next five course attempts or until the end of the session in which the fifth course is attempted. While on probation either he must (re-)gain or maintain the required 50% of C's, if it is impossible to do so within five course attempts, he must obtain a grade of C (or higher) in each course attempt until 50% of C's have been regained. If he fails to do so he will be suspended for three years (see below). Furthermore, if at the end of any session during which he is on probation, he obtains a grade of less than C and thus it becomes impossible for him to (re-)gain 50% of C's within the prescribed five course attempts since returning from the one-year suspension, he will be suspended at that time for three years.

A student will be *suspended* from the Faculty *for three calendar years* if

1. he fails six courses
2. he fails to satisfy the requirements for a Three-Year degree in his first twenty attempts
3. while on probation a second time he
 - (i) fails two or more courses, *or*
 - (ii) does not (re-)gain or maintain the required 50% of C's
4. after returning from a one-year suspension he
 - (i) fails two or more courses during the period of probation, *or*
 - (ii) fails to (re-)gain or maintain the required 50% of C's within the period of probation or, in the case where this is impossible within five course attempts, fails to obtain a grade of C (or higher) in any course attempted until such time as the 50% requirement has been satisfied.

A student who wishes to return to studies in the Faculty after having incurred a three-year suspension may, after the period of suspension has expired either

1. enrol in any one session in two courses which have not previously been attempted. If he obtains an average grade of B in the two courses and not less than C in either, he will retain credit for them and for all courses in which he was previously successful, and he may re-enrol to complete the remaining courses required for the degree on the condition that no failures are recorded; or
2. enrol in separate sessions in two courses which have not previously been attempted. If he obtains a grade of B or higher in both courses he will retain credit for them and for all courses in which he was previously successful and he may re-enrol to complete the remaining courses required for the degree on the condition that no failures are recorded.

Special Students

A special student whose record is unsatisfactory may be refused further registration in the Faculty.

Existing Regulations Rewritten for 1976-77 in Terms of the GPA System

With respect to probation, suspension, and refusal of further registration:

Beginning in the Winter Session 1976-77, academic status for all students will be defined by the following regulations:

1. Students shall be *on probation*

- (a) who have attempted at least four full courses or their equivalent in the Faculty and have a cumulative GPA of less than 1.50
- (b) who return from suspension

Note: Students on probation may register in no more than five courses in the Winter Session.

2. Students who, at the end of any session during which they are on probation,

- (a) have a cumulative GPA of 1.50 or more shall come *off probation*;
- (b) have a cumulative GPA of less than 1.50 but a sessional GPA of 2.00 or more shall remain *on probation*;
- (c) have a cumulative GPA of less than 1.50 and a sessional GPA less than 2.00 shall be *suspended for one year* unless they have been suspended previously, in which case they shall be *suspended for three years*.

3. Students who, having been suspended for three years, are again liable for suspension, shall be refused further registration in the Faculty.

With respect to implementation

The sessional GPA computed in May, 1977 will be treated as a cumulative GPA for the purpose of implementing the above regulations at the end of the Winter Session 1976-77.

Note: If, as a result of this mode of implementation, anomalies in the treatment of individual students arise, they shall be considered by the Committee on Standing.

Part-Time Studies

Administrative Staff – Centre D

Associate Dean	D. P. Morton
Registrar	L. T. McCormick
Registration Officer	C. E. Campbell

Registrar's Office, Room 216, North Building, Telephone 828-5244 or 828-5295.

The Erindale Campus provides instruction for part-time students in most disciplines in the Faculty of Arts and Science, courses leading to the B.Ed. and to the Diploma in Business Administration, a preparation for the M.B.A. The faculty members at Erindale are all members of the University of Toronto Departments and hold cross-appointments on the St. George campus. Many of them teach on both campuses.

Special Programmes

The B.Sc. programme in Survey Science at Erindale offers courses in the evening for those interested in taking the degree or for those who wish to prepare for the examinations set by the Association of Ontario Land Surveyors. For a complete brochure on Survey Science, write or phone the Registrar's Office, Erindale College, University of Toronto, Mississauga, Ontario.

General Information

Part-time students have full access to all Erindale facilities and are subject to the same rules and regulations as full-time students (except with respect to course load).

Part-time students may choose to register in day or evening courses, or both as their personal schedules permit. Three and one-half courses may be taken in the Winter Session, and two courses may be taken in the Summer Session provided no more than one and one-half are taken in any six-week period (term) during the Session.

Normally, Winter day courses meet two or three times a week; most Winter evening courses usually meet once a week for two or three hours. The Summer evening courses normally meet twice a week. Summer day classes are held five days a week, either mornings or afternoons, and are intended for those who are not employed full-time during July and August.

Full details of the courses and programmes available to part-time students in the Summer Session and in the evening of the Winter Session are contained in a special publication entitled "Part-Time Studies Programme 1976-77", which is available in Room 216, North Building.

Please consult the Course Descriptions in this Calendar for a complete description of all courses available at Erindale College and the St. George campus Calendar for courses offered there. All of these courses are available to part-time students, subject to the general regulations for course enrolment.

Admission Requirements

Each *new* student must apply for Admission through the Office of Admissions. The admission requirements for part-time studies are the same as those for full-time studies and are described earlier in this Calendar under "Admission Requirements".

Registration Procedures

Registration procedures for Summer and Winter Sessions usually differ slightly.

Summer registration forms may be picked up in Room 216, North Building along with the "Part-Time Studies Programme 1976-77" brochure. For Winter registration, students are advised to consult the Registrars' offices at Erindale *before the end of April* for details. Winter registration begins the first week of July 1976 and must be completed by Friday, September 10, 1976.

Degree students and *Special* students in Arts and Science with standing in the Faculty do *not* reapply for admission but follow the normal registration procedures.

Special students of Faculties *other* than Arts and Science should consult their own Faculty for admission and registration procedures. They should, however, enrol in Erindale courses through the Registrar's office at Erindale.

Special Programmes at Erindale College

Erindale College — Sheridan College Combined Art Education Programme

This is the first co-operative University and Community College programme in Ontario.

A main objective is to provide students with the academic background and the practical training necessary to become teachers of art in Ontario schools. Not all students entering the programme, however, will necessarily enter the teaching profession, and this has been considered in planning course content. The programme can also provide preliminary training for careers in galleries or museums, or can form the basis of a general art education.

Students must meet the admission requirements of Erindale College, which include a complete Grade XIII standing, as well as those of Sheridan College, which include submission in advance of a portfolio, in proof of a satisfactory level of achievement in art studies. They must submit separate applications to both institutions, and also must register in both places, and enroll in the Programme in the Fine Art Office at Erindale College.

There are a limited number of places available for incoming students, so that candidates for entrance are urged to present themselves early in the registration period.

To obtain a B.A. degree at Erindale, 15 credits are required. Students in the Art Education Programme take 5 credits in Studio Art at Sheridan College (FAS courses) and at least 3 credits in Art History at Erindale College (FAH courses). The graduates of the programme who take three-year degrees are eligible to enter the Type B Certificate course at the Faculty of Education of the University of Toronto. To be eligible for the Type A Certificate, the student must complete a four-year B.A., with additional work in Fine Art. (Candidates interested in becoming teachers are urged to consult the Calendar of the Faculty of Education, and to seek advice there, at an early stage of their academic careers).

Bus transportation between the two colleges is available at a small charge. Students should realize that the greater amount of work will be done at Erindale College, and therefore should plan their programmes and accommodations accordingly.

For course descriptions see the listing for Fine Art under Subjects and Courses.

If further information is required please contact the Office of the Registrar, Erindale College.

Survey Science Programme

In recent years, man has become acutely aware of the environment around him, particularly in connection with such disturbing aspects as pollution, overpopulation and depletion of natural resources. What has been taken for granted for ages is now recognized as a finite environmental system which must be properly managed in order to sustain life and promote orderly development of civilization.

Environmental management embraces many of the physical, biological and social disciplines into which knowledge is divided. One of the key disciplines of the environmental group is survey science, the science of measuring and representing the geometrical and physical features of our environment.

Survey science itself is a multi-discipline body of knowledge which includes such technical subjects as geodesy, photogrammetry, remote sensing and cartography, as well as the procedures that have been traditionally characterized as "surveying". Survey science also includes survey law, particularly the principles of law which pertain to the location and establishment of land boundaries, to land registration, and to the transfer of land ownership.

Survey science is a quantitative discipline, in which the processes of measurement, mathematical modelling, numerical computation, data manipulation and data analysis play essential roles. Accordingly, survey science often employs highly sophisticated instrumentation and procedures which draw heavily upon the basic disciplines of mathematics, physics and computer science.

Survey science relates strongly to other environmental disciplines, such as geology, geophysics and geography, and it is also closely aligned with civil engineering and with urban and regional planning.

Students may enter the Survey Science Programme in the first or second year of undergraduate study. First-year students are eligible to take SUR200Y, and are strongly advised to do so if they plan to pursue the complete programme. MAT135Y and PHY110Y or 135Y should also be taken in the first year of study.

Details of courses offered will be found under Survey Science in the section on Subjects and Courses.

For further information students should contact the faculty advisor Professor G. Gracie — 828-5299.

Specialist and Minor Programmes in Russian and East European Studies

The specialist programme in Russian and East European Studies is designed to provide the student with a broad knowledge of Russian, Soviet and East European affairs.

Programme Requirements

Foreign Language: Each student will complete two consecutive courses of language study in one of the languages of the area.

Core Courses: Students will complete the following four courses

One course in Slavic literature at the 200 level

HIS250Y History of Russia, 1000–Present

POL204Y Politics and Government of the U.S.S.R.

GGR363Y Geography of the Soviet Union

Options: Students must select from the following list, or from additional courses at St. George, a minimum of two courses from one discipline and two other courses. Optional courses must be chosen from at least two disciplines. For purposes of certification students doing a double specialization in this programme and in Slavic Languages and Literatures must choose three optional courses other than SLA courses.

ECO330Y(G) Economy of the U.S.S.R.

HIS329Y The Russian Revolution

POL329Y Marxism

POL337Y Comparative European Politics

SLA310Y Twentieth Century Russian Literature

SLA314F Dostoevsky

SLA317S Tolstoy

SLA320Y Advanced Russian

A reading course or research project may be designed by the student and faculty advisor to provide an additional credit in any of the participating disciplines.

Minor programmes are also provided.

Faculty Advisor: R. B. Day

Professional Faculties

Students enrolled at Erindale College may satisfy the entrance requirements to the following Professional Faculties after one or two years at Erindale College:

Faculty of Dentistry

Completion of one year with high standing. Courses taken should include CHM150Y, PHY110Y and BIO100Y. Although not required by Dentistry, a first year Mathematics course is co-requisite of CHM150Y and PHY110Y. Applications forms must be obtained from the Faculty of Dentistry and submitted no later than December 15th.

Faculty of Law

Students must have a minimum of *two* years of undergraduate studies with a cumulative B+ standing. The Faculty does not recommend particular undergraduate courses for those seeking admission. Rather, it suggests that students treat their previous study as an end in itself and not as a preparation for law school.

Faculty of Medicine

Students may qualify for entry to the Faculty of Medicine (and other Medical Schools). For the Faculty of Medicine, University of Toronto, entry is possible after two years, or after completion of a three or four year degree. Students are warned that competition for places is intense and therefore they should select a programme of studies that leads to other future opportunities as well. Students are advised to contact the Student Affairs Office, Faculty of Medicine to obtain up-to-date information.

Rehabilitation Medicine

Completion of one year of undergraduate study is required. Courses recommended are BIO100Y and one other science or mathematics, PSY100Y and a social science as well as one other option.

Groups of Related Courses

In addition to specializing in the traditional academic disciplines, students may be interested in concentrating on a range of courses which cross the boundaries of specific disciplines. Some such groupings of courses are presented below. Further combinations to meet particular purposes and interests are of course possible, and students are invited to consult with members of the staff regarding their interests.

Canadian Studies

ANT217Y	Indians of North America
ANT304S	Approaches to the Study of Canadian Indian Societies
COM323Y	Introduction to Public Administration
COM400Y	Marketing
COM423Y	Canadian Business Taxation
ECO202Y	Macro-Economic Theory
ECO221Y	North American Economic History and Development
ECO325F	Advanced Economic Theory — Macro
ECO336Y	Canadian Public Finance
ECO361S	Labour Economics and Labour Relations
ECO368F	Economics of Poverty
ENG152Y	Canadian Literature in English
ENG256Y	Canadian Fiction
ENG354Y	Canadian Poetry
FAH310Y	Painting and Sculpture in Canada and the United States
FRE230Y	The Literature of French Canada to 1960
FRE332Y	The Literature of Quebec from 1960 to the present
GGR315Y	Resource Development Problems

GGR346F	The Urban Planning Process in Canada
GGR351Y	Historical Geography of Northeastern North America
GGR353S	Current Canadian Problems in their Historical Setting
GGR361Y	Canadian Contemporary Regional Studies
HIS262Y	History of Canada 1500 — present
HIS313Y	Canadian Labour and the Left
HIS314Y	French Canada Since the Conquest
HIS331Y	Canadian Parties and Politics Since 1867
HIS333Y	Canadian History from Contemporary Issues
HIS359Y	The History of Women in Canada
HIS364Y	Canada and War 1867–1967
HIS367Y	The Canadian-American Relationship
HIS368Y	The Canadian West
INI202Y	Canadian Culture and Society
PHL213F	The University and Canadian Society
PHL213S	The University and Canadian Society
POL100Y	Introduction to Canadian Politics
POL322Y	Introduction to Public Administration
POL323Y	Topics in Canadian Politics
SOC220Y	Canadian Society
SOC345Y	Canadian Communities

The Common Market

COM427S	Management Policy and the International Environment
POL337Y	Comparative European Politics

Communications

CMM100Y	Introduction to Communication Theory and Research
CMM220F	Applications of Communication
CMM284F	Communication and Ethics
CMM309S	The Canadian Media
CMM330Y	Stigmatization, Liberation and Communication
CMM332Y	Small-Group Communication
LIN200Y	Introduction to General Linguistics
PHL283S	The Analysis of Propaganda
PSY367F	Nonverbal Communication
REL375Y	Communications and Religious Consciousness
SOC202Y	Structure of Interpersonal Relations
SOC309Y	Sociology of Mass Communication

Literature in Translation

GER435Y	Hesse, Mann, Kafka
GLL200Y	Greek Drama in Translation
GLL202S	The Ancient Novel
GLL204F	Roman Satire
ITA270F	Reality, Myth, Death: The Modern Italian Novel
SPA297Y	Major Spanish Writers in Translation

Environmental Studies

BIO130Y	Man and Environment
BIO230F	Ecology I
BIO231S	Ecology II
BIO232S	Man and Environment
BIO330Y	Plant Ecology
BIO333F	Ecology of Forest Insects
BIO432S	Community Ecology
BIO433S	Arctic Ecology
BIO435F	Biogeography
ECO260S	The Economics of Environmental Deterioration
GGR131Y	Introduction to Man's Use of the Environment
GGR173Y	Man and Environment
GGR233Y	Natural Resource and Environmental Management
GGR271Y	Methods of Environmental Analysis
GGR315Y	Resource Development Problems
GGR332F	Development and Environment
GGR334S	Water Resources Management
GGR373Y	Remote Sensing of Environment

International Relations

COM427S	Management Policy and the International Environment
ECO328Y	International Economics and Policy
HIS353Y	International Relations 1870–1945
POL104Y	Foreign Political Institutions
POL208Y	Introduction to International Relations
POL328Y	International Organization

Nineteenth Century Studies

ENG207Y	Nineteenth Century English Literature
ENG308Y	Romantic Poetry
ENG324Y	Fiction, 1832–1900
FRE364Y	Prose Fiction from 1800 to 1900
GER221Y	German Literature of the Nineteenth Century
HIS231Y	History of Great Britain, 1800-present
PHL347F	Nineteenth Century Philosophy
SLA210Y	Nineteenth Century Russian Literature

Third World Studies

ANT206Y	Social and Political Organization
ANT211F	African Culture History
ANT212Y	Traditional and Contemporary African Cultures
ANT214Y	Civilizations of Latin America
ECO324Y	Economic Development
ECO366Y	Agriculture and Economic Growth: Theory, History, Policy
GGP255S	Perspectives on Current Population Issues
HIS101Y	The Emergence of the Third World
HIS290Y	Introduction to Latin American History
HIS389Y	Social Revolutions in Latin America
HIS391Y	Mexico: Independence to Revolution 1810–1960
SPA292Y	Latin American Civilization and Culture (in English)

Urban Studies

ECO333Y	Urban Economics
GGR241Y	Urban Canada
GGR340Y	Concepts, Methods and Values in Urban Studies
GGR346F	The Urban Planning Process in Canada
GGR349Y	Workshop in Advanced Urban Geography
GGR365Y	Problems in Contemporary Regional Design
GGR441S	Advanced Topics in Urban Studies
POL308Y	Urban Politics
SOC205Y	Urban Sociology
SOC328F	Environmental Sociology
SOC340Y	Concepts, Methods and Values in Urban Studies
SOC345Y	Canadian Communities
SOC422F	Selected Topics in Urban Sociology and Population I
SOC423S	Selected Topics in Urban Sociology and Population II

Medieval Studies

ENG312Y	Chaucer
ENG404Y	Studies in Middle English Language and Literature
FAH102Y	Medieval Art and Architecture
FRE316Y	Medieval French Language and Literature
GER326F	Introduction to Middle High German
GER327S	Medieval German Literature
HIS220Y	The Shape of Medieval Society
ITA310Y	Dante's <i>Divina Commedia</i>
SPA430F	Medieval Spanish Verse
SPA450S	Medieval Spanish Literary Prose

General Information

Fees

Prior to registration each student newly admitted to the Faculty and each returning student will be sent a fees form and a schedule of fees stating the academic and incidental fees required, the date due, and the method of payment. Fees vary slightly by college and from year to year, and are subject to change by the Governing Council.

The approximate cost for a student in Arts and Science is \$630 annually for tuition and incidental fees such as student organizations, athletic, and health services. Residence fees are separate and generally approximate \$1000 per year for room and board.

Application Fee

Each applicant who is not in full-time attendance at a Canadian secondary school or who has not previously registered at this University is required to pay an application fee of ten dollars (\$10) when submitting his application form to the Office of Admissions, University of Toronto.

Outside Centre Fee

Each student who applies to write an examination outside Toronto must submit with his application a fee of ten dollars (\$10) plus five dollars (\$5) for each additional paper to be written at the same outside centre.

Special Examination Fee

Each student who is granted permission to write a special examination must pay to the Comptroller a fee of ten dollars (\$10).

Penalties

Students are urged to consult frequently the Schedule of Dates printed at the beginning of this Calendar, as this sets forth the dates by which certain administrative action is required or penalties may be incurred. These charges as follows:

Each student who pays his fees in two instalments (September and January must pay an instalment charge. Students registered in the Summer Session may not pay by instalments.

A student who pays the balance of his fees after the Second Instalment is due, incurs a penalty of ten dollars (\$10). Accounts outstanding on March 1st will be subject to a further charge of 1½% per month on the unpaid balance.

Outstanding Fees and Charges

Students who have not paid their fees or residence dues in full or who have outstanding library dues or bookstore accounts by the end of the session will not be permitted further registration in the University, will not have transcripts issued on their behalf, and will not receive their diploma (if in their graduating year) until payment is made.

Deductions from Fees

- Scholarships:** A student may apply to his fees any scholarship awarded by the University.
- Ontario Student Assistance Programme:** A student may use the loan portion of his OSAP award to pay his first term fees. To do this he must produce his Student Award Statement, enclose it with his fees form, and submit both to the Fees Office, Erindale College.

Payment of the Second Instalment of Fees by the OSAP Grant Cheque: Students will not be fined for late payment of fees if the delay in payment is due to the late arrival of the grant cheque. However, if the Grant is less than the second term fees, then the student must pay the difference before January 15.

Scholarships and Financial Assistance

Scholarships or Prizes: Awarded for academic excellence without reference to financial need.

Bursaries: Awarded to students who demonstrate both good academic standing and financial need.

Loans: Provided to students who have financial need. Loans are repayable according to definite loan agreements.

Erindale College students, as members of the University of Toronto, are eligible for awards offered by government, the University of Toronto and Erindale College.

For full information, please consult the Erindale College Awards Bulletin, available in mid-April, 1976, in the Registrars' offices.

Study Elsewhere Programme

The programme of Study Elsewhere is designed to allow students who will have obtained standing in 9, 10 or 11 credits to complete the next 5 credits of their degree programme at another university, generally outside North America, and thereby to benefit from the educational opportunities and experiences, which are available in a different milieu.

Full information concerning this programme can be obtained from Mr. L. T. McCormick, Registrar, Centre A, Erindale College (828-5244), the St. George campus calendar and the Secretary of the Committee, Miss E. Ishibashi (978-3387).

Discipline in Academic Matters

The Governing Council of the University of Toronto has approved a Code of Behaviour regarding academic discipline applying to all students and members of the teaching staff of the University. This Code describes the rights and freedoms to be enjoyed by members of the University. It also lists forms of behaviour regarded as academic offences in the University, and the sanctions for such offences. Examples of such offences include plagiarism, cheating in examinations, the evaluation of a student's work by irrelevant criteria, etc. Such offences may be referred to the University Disciplinary Tribunal and to other relevant disciplinary bodies in the University.

The full text of the Code of Behaviour and the Governing Council Enactment concerning the Disciplinary Tribunal can be obtained from college and faculty offices, the office of the Vice-President and Provost, the office of the Secretary of the Governing Council, and that of the Chairman of the University Disciplinary Tribunal.

Plagiarism

Plagiarism is the act of presenting the ideas or words of another as your own. While it may be argued that few ideas are original, instructors expect students to acknowledge the sources of ideas and expressions that they use in essays. To represent them as self-created is dishonest and academically worthless.

You may quote or paraphrase another writer if he has stated an idea strikingly, as evidence to support your arguments or conclusions, or as a point against which to argue, but such borrowing should be used sparingly and always indicated in a footnote. The aim of scholarship is to develop your own ideas and research and only by trying to develop your own thoughts and arguments will you mature academically.

To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the teacher to consult your sources with ease. Failure to do so constitutes plagiarism which is subject to serious academic penalty.

It will also be considered plagiarism if a student submits a term paper written in whole or in part by someone other than himself, or copies the answer or answers of a fellow student in any test, examination, or take-home assignment.

Discipline in Non-Academic Matters

The Councils of University College, Scarborough, Erindale, New and Innis Colleges, the governing bodies of the Federated Universities and Affiliated Colleges, and the Councils of the Faculties,

Schools and Institutes have disciplinary jurisdiction over the conduct of all students registered in these divisions of the University in all matters of local or internal concern to the divisions. Jurisdiction over the conduct of students while in residence rests with the body administering the residence.

Where the appropriate body exercising disciplinary jurisdiction has found that a student of the University has engaged in conduct prejudicial to the interests of the University, the Caput may, in its discretion, suspend or expel such student from the academic privileges of the University. Every decision of the Caput involving the expulsion of a student from the University requires confirmation of the Governing Council. The role of the Caput and the various Councils as described above is contingent on the understanding that offences or actions or claims within the jurisdiction of criminal and civil courts will be referred where appropriate to those courts and will only be reviewed by the Caput where the implications to the University are considered sufficiently important to warrant such review.

Office of the University Ombudsman

The University Ombudsman investigates grievances or complaints against the University, or anyone in the University exercising authority, from any member of the University — student, faculty or administrative staff. He assists in any way possible and can recommend changes in academic or administrative decisions where this seems justified. He has access to all relevant files and information, and to all appropriate University officials.

The Ombudsman also provides information to members of the University about their rights and responsibilities, and the procedures to follow in order to pursue whatever business or complaint they may have.

All matters are handled in a strictly confidential manner. The Ombudsman is independent of all administrative structures of the University, and is accountable only to the President and the Governing Council.

For information, advice or assistance, contact the Office of the University Ombudsman, University of Toronto, 16 Hart House Circle, Toronto, Ontario M5S 1A1 (Telephone 978-4874).

Erindale College Council

The Erindale College Council develops academic policy, awards scholarships, bursaries, prizes and other awards in the gift of the College and advises the Principal on all matters concerning the conduct of College affairs. It is composed of the chief academic administrators of the College, all members of the teaching staff, 60 full-time undergraduates, 15 part-time undergraduates, 5 graduate students, the Heads of administrative departments, 5 members of the administrative staff, 2 members of the Erindale alumni and 2 members of the Associates of Erindale.

The Council appoints three standing committees, the Executive Committee, Academic Affairs Committee and College Affairs Committee. Each of these may appoint such sub-committees as are deemed necessary to carry on the policy and decision making of the College. Like the Council itself, the composition of all committees reflects the various interests and concerns of all College members.

Counselling

Every effort is made to provide students with both general and special counselling in all areas of personal concern, i.e. academic, medical, psychiatric, financial and vocational.

The offices of the Deans and Registrars are the normal places for general counselling and advice on day to day queries or problems.

In areas where specialized assistance is needed the Registrar's Office will refer the student to the appropriate service. Prospective students are urged to obtain academic counselling, course selection assistance, etc. from the Registrar's Office or Faculty Advisors during the summer months.

Library

Erindale College Library has an excellent and ever-growing collection of books, periodicals, film strips, cassettes, clippings and other materials now numbering 140,000 items. This extensive library

is staffed with people trained to help the student use the Library's resources.

In addition to the College Library, students and faculty have access to more than two million volumes of the University of Toronto Libraries on the St. George Campus. There is a regular book delivery service from the University of Toronto Libraries to the Erindale Campus.

University Health Service

The University Health Service offers a partial but reasonably comprehensive medical service for students on the Erindale Campus throughout the academic year for treatment and advice. Students are encouraged to discuss their concerns about contraception, drug problems, unwanted pregnancies, sexual life and venereal disease. An infirmary service (October 1 to May 15) is available as is extensive treatment and care for athletic injuries.

Psychiatric consultation and counselling to assist the students with emotional and social problems are readily available.

The primary responsibility of the Health Service is to the student, therefore, all consultations, medical and psychiatric, are strictly confidential and form no part of any "University Record". Information acquired from students will not be given to anyone at anytime without the express permission of the student.

Health Service Hours

Monday to Friday 9:00 a.m.-5:00 p.m. Telephone 828-5255

To obtain a physician's advice evenings, nights, weekends and holidays: Telephone 978-2458.

Athletic Requirements

Physical examination is recommended for those taking part in competitive body contact sports.

Erindale College Student Union (E.C.S.U.)

The Erindale College Student Union serves as an important link between students and the administration of the College and University. Elections are held yearly to select officers who provide for the cultural and social needs of the students. E.C.S.U. sponsors Radio Erindale, a newspaper, ethnic clubs, concerts, lectures and a pub. It is an organization that tries to stimulate student interest outside the classroom, with programmes that are student-oriented and aimed to encompass the entire campus community and in some instances the local community of Mississauga. All undergraduate students of the College are members of E.C.S.U. and are entitled to attend meetings, sit on commissions and vote.

Student Publications

Medium II, a weekly student newspaper focuses on campus and community events, news, reviews, and features.

The Laomedon Review, a bi-yearly creative writing journal, contains literary works which include poetry, prose, drama, and criticism.

Both are published by The University Journal. All students are encouraged to assist in the successful operation of the above projects.

Athletics and Recreation

The Athletic and Recreation Department, in conjunction with the Erindale College Athletic and Recreation Association (ECARA), is responsible for the planning and operation of programmes for the Erindale College community.

The programme is wide in scope, including instruction, activity clubs, intramural leagues for men and women, co-educational recreation, and college teams. Most of the programmes take place in the recently completed physical facilities on campus which include a gymnasium, weight training room, teaching studio, recreation room, and three squash courts. At present, Erindale College teams

compete in the University of Toronto Interfaculty league and with other colleges and universities on an exhibition basis.

In addition to the facilities and programmes on the Erindale Campus, students may use the facilities on the St. George Campus as well as participate in their on-campus and intercollegiate programmes.

Erindale College has submitted an application to join the Ontario Athletic Association for 1976/77. If accepted, Erindale College has agreed that students will only be able to participate for Erindale College at the Intercollegiate level.

For inquiries about the athletic programme telephone 828-5269.

Residences

Erindale College offers residence accommodation for up to 290 students. Townhouse style residences make it possible for students to share living expenses on a co-op basis. Students have estimated they can save up to \$200 per year by preparing their own meals. Each unit also governs itself cooperatively. Units are fully equipped and furnished (except linen).

Four-person units have four single study-bedrooms, plus living room, kitchen and dining areas.

Six-person units are made up of two single study-bedrooms, two double study-bedrooms, plus communal kitchen and living areas. There is a common laundry facility for each eight units. Residences are just a few minutes' walk from the library, classrooms, and cafeterias, where students can buy meals when they wish.

Costs are approximately \$700 per year, September to May, for a single at present and approximately \$650 per year for a double.

For further information contact the Housing Office, Room 11, Erindale College, 3359 Mississauga Road, North, Mississauga, Ontario, L5L 1C6 or telephone 828-5286.

Campus Organizations

Responsibility for recognition of organizations where the membership is drawn from a single College, Faculty or School rests with the Council of that division. Where University-wide organizations (or organizations drawing members from more than one division or constituency of the University) are concerned, responsibility is vested in the Internal Affairs Committee of the Governing Council.

Eligibility for recognition is assessed annually. The constitutions of every society or association, and all subsequent amendments to such constitutions, shall be submitted to the appropriate administrative officer for perusal. The objectives and activities of groups seeking recognition should be seen as attempting to contribute to the educational, recreational, social or cultural values of the University. Membership in groups should be open to all members of the University community without restriction on the grounds of national origin, race, religion, colour, or sex. Status as non-voting members may be extended to interested persons from outside the University.

Students' Administrative Council (SAC)

The Students' Administrative Council is the central student government for all full-time undergraduates. Members are elected from their local college or faculty. The SAC office is in the Old Observatory, on the St. George campus, across from Hart House, and is open all day to provide information and assistance.

The SAC provides a variety of services, including concerts, films and speakers, as well as representing the interests of all students at a university level. Further information with respect to SAC services and information regarding the university in general is provided in the SAC Student Handbook, available in the fall to all students.

The SAC publishes a Student Directory containing the names, addresses and telephone numbers of all students, and which is available in the late fall. Students who wish their names to be omitted should send a written request to the SAC office or to the Office of Statistics and Records in the early fall. (Telephone 978-4911).

International Student Centre

The International Student Centre, 33 St. George Street (978-2564), provides a meeting place for students from Canada and abroad to come together in organized programmes or informal gatherings in a multicultural setting. The "International community" on the campus can find there ample opportunity to exchange ideas, to demonstrate their cultures, and to relax together.

There is no membership fee and all students, Canadian and overseas, graduate and undergraduate, are welcome to use any of the facilities at ISC, and to participate in its activities.

The Centre provides for a nominal fee, an English Language Programme for students requiring assistance in this area. The staff of the Centre can also advise on other English programmes available in Toronto.

The staff are also available to discuss with students any questions or concerns including immigration matters, and when necessary will refer them to the appropriate person or agency. The office of the Foreign Student Adviser is located in the Centre, as is the office of the Canadian International Development Agency Coordinator.

The Centre's International Work Study and Travel Information Service (INTERCHANGE) provides students and other members of the University with information about the wide range of opportunities available for experience abroad.

The Association for Part-Time Undergraduate Students

The Association for Part-time Undergraduate Students (APUS) represents all part-time undergraduate students at the University of Toronto. At Erindale College the branch APUS office is located in Room 154B, North Bldg.

The Association works on a class representative system; an executive committee is elected annually from the Assembly of Representatives. APUS publishes a weekly newsletter, *Voice*, an annual *Handbook for U of T Part-time Undergraduates*, and semi-annual Course Evaluations. Call 828-5422 for further information.

The Career Counselling and Placement Centre

The Career Counselling and Placement Centre located at 344 Bloor St. W., 4th Floor (978-2537) is useful to students who are planning a career, looking for a job or intending to go to graduate school. Appointments at Erindale may be arranged in Room 3094.

There are counsellors with whom one can discuss future career goals, present employment requirements and other related problems. There is an extensive Career Library containing information on over one thousand employers, various industries and occupations as well as directories for different sectors of the labour market and undergraduate and graduate calendars for Canadian, American and British universities. Moreover, there are services for job seekers — part-time, summer and full-time employment. In addition, to assist students in choosing and planning a career, the Centre sponsors a series of Careertalks and seminars for students in different faculties relating to job hunt strategies including resume writing and interviews taking.

Subjects and Course Descriptions

Students are urged to read the course descriptions completely and carefully paying particular attention to exclusions, prerequisites and corequisites. Some higher-series courses are available to first year students and are marked with a (I) in the margin. Others may also be open to first or second year students if no specific prerequisites or restrictive notes are indicated.

The course code (or identifier) is the group of three letters, three numbers and a final letter shown in the margin beside each course description. This code is used almost everywhere to speed identification of a student's programme. Be careful in their use.

Previous Erindale College calendars used the suffix "E" as part of the course code to identify courses that were unique to Erindale either in content or in approach. In some cases their course code was the same as for courses on the St. George campus except for the "E". The "E" has been discontinued and courses that normally would have carried the "E" have their codes *underlined* in the margin this year. No "E" or underline is used in the text.

The following descriptions refer to courses taught at Erindale College even though the same course may be offered on the St. George campus as well. Therefore, it is important to watch the "campus code" when referring to a course not taken on the Erindale campus. A "(G)" after the course code in the text indicates a course appearing *only* in the St. George calendar. Courses appearing in earlier Erindale College calendars but not in this one show the last academic year in parentheses after the course code e.g. REL190(1973-74).

Subjects are listed alphabetically under the following abbreviations:

ANT	Anthropology	GRH	Greek & Roman History (See Classics)
APM	Applied Mathematics (See Mathematics)	HIS	History
AST	Astronomy	INI	Interdisciplinary (Innis College)
BIO	Biology (Botany, Zoology and Microbiology)	INE	Interdisciplinary (Erindale College)
CHM	Chemistry	ITA	Italian
CMM	Communications	LIN	Linguistics
COM	Commerce	MAT	Mathematics
CSC	Computer Science	MUS	Music
DRA	Drama	PHL	Philosophy
ECO	Economics	PHY	Physics
ENG	English	POL	Political Science
EPS	Earth & Planetary Sciences (Geology & Geophysics)	PSY	Psychology
FAH	Fine Art History	REL	Religious Studies
FAS	Fine Art Studio	SLA	Slavic Languages & Literature (Russian)
FRE	French	SOC	Sociology
GER	German	SPA	Spanish
GGR	Geography	STA	Statistics
GLL	Greek & Latin Literature (See Classics)	SUR	Survey Science

Other Abbreviations

L	Lecture hours
P	Practical or laboratory hours
S	Seminar hours
T	Tutorial hours
P.I.	Permission of the Instructor required
/	Means "or"
& and the comma",","	Mean "and"
(I)	May be taken by first year students
(G)	St. George calendar course code

ANTHROPOLOGY

Faculty Advisor: Professor W. Hurley

Anthropology is the study of human biology and culture and the interaction between the two. Physical Anthropology focuses on the evolution of man and his nearest primate relatives, as revealed by fossil remains, and on the constitution, physiology and variation of living populations. Cultural Anthropology is the study of the way of life of peoples throughout the world: their technologies, economies, societies, languages, and value systems; the functional interrelationships of these; and the relationship between culture and environment. Physical remains of the activities of populations no longer extant (e.g., habitations, tools, food remains) are investigated by archaeological techniques to reconstruct the cultures of the past and to trace their development from earliest time. Conclusions are drawn about the interaction of cultural and physical processes.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods of physical and cultural anthropology and to involve them in the research programmes of the department. Students planning an anthropology concentration should consult faculty members for advice.

Anthropologists are employed as faculty in universities and colleges, as researchers in museums, and by government. For additional information see Anthropology as a Career by Wm. C. Sturtevant, available at the Erindale College Library.

For a minor in Anthropology 6 courses are required including ANT101Y, ANT206Y, ANT226Y, and ANT230Y. A specialist programme requires 3 additional courses including at least one of the following: ANT207F, ANT231H, ANT228F, or ANT322Y.

The following Anthropology courses are considered as Science courses: ANT230Y, 231H, 232Y, 322Y, 334Y, 336F, 338Y, 339F, 422Y and 434F.

ANT101Y	INTRODUCTION TO ANTHROPOLOGY	2L,2T
	A survey of the biological and cultural aspects of man and his behaviour: mankind's evolutionary development and present variation; concept of culture, its various aspects and processes; origin, development and differentiation of cultures from the archaeological record. L. Reinhardt, and F.J. Melbye.	
ANT201Y (1)	NORTH AMERICAN ARCHAEOLOGY (Offered Summer Day 1976 only) A survey of culture history from the first appearance of man in North America until the coming of the Europeans. Selected readings provide the broad outline; lectures will discuss methods of analysis and offer detailed summaries of the evidence of selected sites and their interpretation.	2L
ANT206Y (I)	SOCIAL AND POLITICAL ORGANIZATION A general course emphasizing non-western peoples. R.M. Vanderburgh.	2L,1T

ANT207F

FOLKLORE AS INTRODUCTION TO ETHNOGRAPHIC FIELD TECHNIQUES

2L, 1P

(I)

Lectures on ethnographic field techniques; survey description and comparison of types and functions of the "oral literature" of various culture areas. Student project: field work in modern folklore.

ANT209Y

RELIGION IN CULTURE

2L, 1T

(I)

An anthropological view of religious behaviour with emphasis on the religions of non-western peoples. R.M. Vanderburgh.

ANT210Y

THE ANTHROPOLOGY OF ART

2P

(I)

Comparative approaches to art and aesthetics in world cultures and the meaning and function of art in specific cultural contexts. L. Reinhardt.

ANT211F

AFRICAN CULTURE HISTORY

2L

(Not offered 1976-77)

(I)

A survey of African culture history from the dawn of prehistory through the colonial era. Consideration of variety in adaptational forms and development; agricultural origins, state systems, reactions to colonialism. L. Reinhardt.

ANT212Y

TRADITIONAL AND CONTEMPORARY AFRICAN CULTURES

2L

(I)

Survey of traditional African cultures and institutions, and the changes involved in current movement toward industrialization. L. Reinhardt.

ANT214Y

CIVILIZATIONS OF LATIN AMERICA

2L

(I)

Development and characteristics of complex cultures of Central and South America.

ANT215F

PEOPLES OF THE FAR EAST

2L

(I)

Description of traditional cultures of China, Korea, Japan and Siberia. Complex cultural interrelationships in this area (diffusion, assimilation, and cultural distinctiveness).

ANT217Y

INDIANS OF NORTH AMERICA

2L, 1P

(I)

Survey of native cultures and discussion of the role of environmental and historical factors. A. Mohr.

ANT221S

ARCHAEOLOGICAL LABORATORY ANALYSIS

1L, 2P

(I)

Analysis and description of archaeological material.
PREREQUISITE: ANT228F and P.I.

ANT226Y

OLD WORLD PREHISTORY

2L

(I)

Earliest evidence for human culture; development differentiation and diffusion of cultures in the Old World through the last 2,000,000 years. Interpretation of man's cultural adaptations from material remains of that behaviour.

ANT228F

ARCHAEOLOGICAL FIELD METHODS

2P

Instruction in archaeological field techniques from August 18 to 29, through excavation of a prehistoric site located near Grindale College and by laboratory instruction.
PREREQUISITE: P.I.

ANT230Y

PHYSICAL ANTHROPOLOGY

2L

(I)

A survey of the field of physical anthropology. Topics will include human evolution and paleontology, skeletal biology, human genetics and variation, human growth, primatology and human adaptation. B.A. Sigmon, F.J. Melbye.

ANT231H

LABORATORY METHODS IN PHYSICAL ANTHROPOLOGY

2P

(I)

Recommended for those who may specialize in anthropology. The student will be guided in basic laboratory procedures on specific topics as they are discussed in the survey course. B.A. Sigmon. COREQUISITE: ANT230Y.

ANT232Y

HUMAN ORIGINS

2L, 1P

(Not offered 1976-77)

A survey of human palaeontology and the evolutionary stages through which man passed in becoming Homo sapiens. B.A. Sigmon. PREREQUISITE: ANT101Y.

ANT304S

APPROACHES TO THE STUDY OF CANADIAN INDIAN SOCIETIES 2T

(Not offered 1976-77)

A seminar course examining the acculturative situation. R.M. Vanderburgh. PREREQUISITE: ANT206Y or ANT217Y and P.I.

ANT305Y

TECHNOLOGY, SOCIETY AND CULTURE

3P

(Not offered 1976-77)

The role of technology in social and cultural change and adaptation, including an introduction to basic techniques and their historical development. L. Reinhardt.

ANT320F

ADVANCED ARCHAEOLOGICAL FIELD METHODS

P

(Not offered 1976-77)

Instruction in archaeological field techniques, laboratory preparation, supervision of field and laboratory work. (Conducted concurrently with ANT228F.) A. Mohr. PREREQUISITE: ANT228F and P.I.

ANT321F

ADVANCED ARCHAEOLOGICAL ANALYSIS

P

Analysis of archaeological material and report preparation. PREREQUISITE: ANT221S and P.I.

ANT322Y

SPECIAL COURSE IN ARCHAEOLOGICAL FIELD METHODS

P

(I)

Field sessions from about May 15 to June 30. Instruction in archaeological field methods. The course is held in an area which provides experience with types of archaeological phenomena not available for ANT228F. In 1976 the session will be in the region of Lindreth, New Mexico. A. Mohr. PREREQUISITE: P.I.

ANT324F

ARCHAEOLOGICAL INTERPRETATION

2T

A survey of methods and ideas about the reconstruction of the past from the archaeological record including subsistence, population, social organization, religion, settlement plan and organization, etc. A.Mohr. PREREQUISITE: ANT228F, 221S/ANT201Y/ANT226Y and P.I.

ANT334Y

SKELETAL BIOLOGY OF PREHISTORIC PEOPLES

2L

Includes the method and technique of recovering, preserving, recording and analysing skeletal remains. The human skeleton will be studied in detail, and practical experience will be offered in the analysis of a skeletal population. PREREQUISITE: ANT230Y and P.I.

ANT336S

HUMAN HEREDITY, EVOLUTION AND VARIATION

2L, 2P

The principles of human population genetics are the central theme of the course. Against this background topics relating to human evolution and human diversity will be discussed. PREREQUISITE: ANT230Y or P.I.

ANT338Y

PRIMATE BIOLOGY

3P

An introduction to the biology of non-human primates, including the study of soft skeletal anatomy of representatives of different taxa of extant primates. B.A. Sigmon. PREREQUISITE: ANT233E (1972-73) or P.I.

ANT339F

HUMAN ADAPTABILITY
(Not offered 1976-77)

3L

A survey of the nature and range of biological variation in modern man. B.A. Sigmon. PREREQUISITE: ANT101Y, ANT233E (1972-73), ANT230Y or P.I.

ANT397F/S/H INDEPENDENT STUDY

T

Supervised reading on selected anthropological topics.
PREREQUISITE: P.I.

ANT398Y

INDEPENDENT READING

T

Supervised study of selected anthropological topics.
PREREQUISITE: P.I.

ANT399Y

INDEPENDENT RESEARCH

T

Supervised research in anthropology. PREREQUISITE: P.I.

ANT422Y

SPECIAL PROJECTS IN ARCHAEOLOGICAL FIELD RESEARCH

(I)

Field session from about May 15 to June 30. Held in conjunction with ANT322Y. Advanced students will be supervised in individual investigation of special problems in the archaeology of the area. In 1976 the session will be in the region of Lindreth, New Mexico. A. Mohr.
PREREQUISITE: ANT320F, 321S or ANT322Y or P.I.

ANT433S

PALAEODEMOGRAPHY

3P

(Not offered 1976-77)

The study of prehistoric human population. The course will explore aspects of mortality and life span in relation to age and sex ratios of human populations. F.J. Melby.

PREREQUISITE: ANT334Y or P.I.

ANT434F

PALEOPATHOLOGY

3P

(Not offered 1976-77)

The study of diseases of ancient populations, and the detection and interpretation of human skeletal pathology. Four facets are: 1) the comparison of populations, 2) the influence of disease on culture, 3) the temporal and geographical distribution of diseases, 4) clinical uses of the data. F.J. Melby. PREREQUISITE: ANT334Y or P.I.

ANT480Y

GRADUATE COURSE IN ANTHROPOLOGY

ANT481F

Up to the equivalent of one graduate course may be taken, using one of these numbers. PREREQUISITE: permission of department.

ANT482S

ANT490Y

SEMINAR IN ANTHROPOLOGICAL THEORY AND METHOD

2S

PREREQUISITE: P.I.

ANT499Y

ADVANCED INDEPENDENT RESEARCH

For students whose original research is leading toward a publishable report. PREREQUISITE: P.I.

APPLIED MATHEMATICS (See Mathematics)

APM251Y

APPLIED MATHEMATICS I

2L,1T

Introduction to dynamical systems: Newtonian physics, Lagrangian dynamics, linear networks, vibrating strings. Linear systems in finite dimensional vector spaces: similarity, orthogonality, eigenvectors, decomposition of spaces. Introduction to infinite dimensional spaces: orthogonality, eigenvectors, Fourier series. Some numerical methods. Some experience in an experimental science is desirable. EXCLUSION: MAT244F, 214F, 219S, 235Y. PREREQUISITE: MAT135Y (C or better) or MAT139Y. COREQUISITE: MAT239Y.

APM311F

PARTIAL DIFFERENTIAL EQUATIONS

2L,1T

Hyperbolic, parabolic, elliptic partial differential equations. Separation of variables, eigenfunction expansions, integral transforms Green's functions. Examples drawn from physics and engineering. EXCLUSIONS: APM351Y, 331F(G), 346S(G). PREREQUISITE: MAT235Y/(MAT239Y and 214F).

APM351Y

APPLIED MATHEMATICS II

2L,1T

Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology. PREREQUISITE: APM251Y (C or better).

ASTRONOMY

Faculty Advisor: Professor J. R. Percy

Astronomy, the "Queen of Sciences", is wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and universe; the origin of life on earth and elsewhere; the behaviour of matter in varied environments and, in general, the influence of our ideas of the universe on man's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education.

Three introductory courses are offered at Erindale. AST100Y is a course in which students can learn about the universe even though they do not have a scientific bent. The course is largely descriptive, and covers the full range of astronomical topics. AST200F is also designed for students whose principal interests are non-scientific, particularly students who wish to limit themselves to a half course. This course attempts to present up-to-date topics in some detail, and to answer often-asked questions. Since this course is given in the evening, it is of particular interest to part-time students.

For students who are more interested in the sciences, AST120Y provides a deeper insight into the physical nature of planets, stars and galaxies, and also provides some understanding of the tools and methods used by the astronomer.

At a more advanced level, AST310F and AST320S may be taken together or separately. They are intended for students with a serious interest in science (mathematics, physics, astronomy, space science or earth and planetary sciences), but require no previous introduction to astronomy.

Students who wish to specialize in Astronomy and Astrophysics should consult the Astronomy Faculty Advisor at Erindale.

AST100Y ASTRONOMY FOR ARTS STUDENTS

2L, $\frac{1}{2}$ T

A general survey of modern astronomy which gives a descriptive treatment of the nature of planetary and stellar systems and the present conception of the structure of the universe. This course is intended for students with no science background or those who do not intend to specialize in science. It is not open to students who are currently enrolled in or have completed a 100 or higher-series course in physics or a 200 or higher-series course in chemistry. J.R. Percy. EXCLUSION: AST120Y/200F.

AST120Y ASTRONOMY FOR SCIENCE STUDENTS

2L, 1T

A general survey of astronomy in which concepts in basic physics are applied to a treatment of the solar system, stars and stellar systems, and the structure of the universe. This first-year course is intended for students who already have some background in science or those who are currently enrolled or in the future will be enrolling in science courses. EXCLUSION: AST100Y/200F PREREQUISITE: GRADE XIII MAT R & F, GRADE XIII PHY.

AST200F THE UNIVERSE - AN APPRECIATION

2L

(I) A topical course in astronomy designed for students in disciplines other than the sciences. The emphasis will be on fields of current interest in astronomy with the aim of interpreting recent and forth-coming developments. This course is not available to students who are enrolled in or have completed a 200 or higher-series course in physics or chemistry. J.R. Percy. EXCLUSION: AST100Y/120Y.

AST310F

SOLAR SYSTEM ASTROPHYSICS

2L

The physical nature of the sun, planets, satellites and other constituents of the solar system. Their motion, structure, origin and evolution. COREQUISITE: At least one 300-level Physics course/P.I.

AST320S

STELLAR AND GALACTIC ASTROPHYSICS

2L

The structure, origin and evolution of the sun, stars, galaxies and universe. Introduction to relativity and cosmology. COREQUISITE: At least one 300-level Physics course/P.I.

AST425H

RESEARCH TOPIC IN ASTRONOMY

Consists of a research report by the student in consultation with an individual staff member in the department. Students must enrol with the faculty advisor of the department on the Erindale Campus. COREQUISITE: AST420Y(G).

BIOLOGY

Faculty Advisors: Professors P.W. Ball (Botany), D.L. Gibo (Zoology) and A. Guha (Microbiology).

Biology is the science of living organisms - their kinds and relationships, origins and evolution, structure and development, and their functions and mutual relationships in the environments in which they occur. Biology relates to such major human problems as starvation, overpopulation, conservation, pollution, and to the whole field of medicine and disease. Living organisms may be studied from a variety of viewpoints such as biochemical, physiological, ecological, genetical, taxonomical, structural, and developmental, and from a variety of organizational levels from populations and individuals through organs, tissues, cells, and organelles, down to molecules.

Botanists, microbiologists, and zoologists at Erindale co-operate closely in organizing courses and programmes in Biology which stress the relationships of plants and animals in terms of form, function, environment, and microstructure, at many levels of organization.

There is a variety of alternatives available to students of Biology. A student can, by completing the Specialist Programme in Biology presented below, obtain a four-year Bachelor of Science degree with the designation "Biology Specialist" on the transcript. Students who intend to become high school Biology teachers can, by taking the 8 core Biology courses listed below plus one additional full Biology course, meet the requirements for a Type A Certificate Ontario Department of Education. Finally, students may elect to carry out an interdisciplinary (Biology-Psychology) specialist programme in Animal Behaviour. Successful completion of the courses listed (see Psychology) will be recognized by the designation "Animal Behaviour Specialist" on the transcript. Students selecting courses in Biology as part of their "Animal Behaviour Specialist" programme must achieve a standing in those courses consistent with that specified for the "Biology Specialist" programme.

Staff will assist students in organizing appropriate groups of courses for any of the above alternatives.

SPECIALIST PROGRAMME IN BIOLOGY

This course is designed for students desiring a degree which reflects a good, sound education in all basic aspects of Biology. Students who complete the core programme and a carefully selected group of options will be qualified for graduate studies in most areas of Biology, and for employment opportunities specifying an undergraduate degree in Biology. Those who obtain at least 60% in Biology courses of year II and above, and a minimum average (to be specified) in the last 15 courses of the specialist programme, will qualify for the designation "Biology Specialist" on their transcript.

While the curriculum shown below is a logical progression through the years and presents no timetabling problems, a certain amount of flexibility is possible. For instance Year II courses could be delayed until Year III or IV in order to take certain Biology options earlier in the programme. However, associated timetabling problems may arise and the student is cautioned to carefully plan his programme, in consultation with Biology staff, for all four years at the outset.

- Year I BIO100Y, MAT130Y/135Y, CHM150Y, PHY110Y/135Y, 1 option.
Year II BIO230F, 241Y, 270Y, 250Y/251Y, CHM240Y, $\frac{1}{2}$ option.
Year III BIO340Y, 251Y/250Y, 320Y/321Y/370Y, 360F, 1 $\frac{1}{2}$ options.
Year IV 5 options.

Notes:

1. A total of 8 options is available. Of these, one must be a humanities course from Centre A, one must be a non-Biology course from Centre B or C, and at least 4 must be Biology courses (CHM360Y may be included as a Biology course). It is suggested that these 4 Biology courses and the remaining 2 options be chosen in consultation with appropriate staff members to provide concentration in an area of Biology of special interest. Courses in cognate studies such as Computer Science, Physical Chemistry, Earth and Planetary Sciences, and Psychology may also be considered for options.
2. Students electing to take BIO320Y in Year III must, for timetabling reasons, take BIO360F in Year IV.
3. Because of high demand and space limitation, it may be necessary to limit enrolment in some Biology courses. In these cases only those students who obtain the highest grades in the prerequisite courses will be enrolled.

BIO100Y THE STUDY OF LIFE 2L, 3P

Organized around three major abstract concepts: Time (Evolutionary Processes and Products), Energy (Its procurement and Utilization by Living Organisms), and Information (The Organization of Living Systems). It presents an integrated study of life at four levels: molecular, cellular, organismal, and social; leading the student to an awareness of the five unique characteristics of living material, i.e., Organized Structure, Specialized Function, Growth and Development, Heredity, and Evolution. Practical sessions will introduce the student to a wide range of material and techniques. Staff

BIO130Y MAN AND ENVIRONMENT 2L

(Same as GGR173Y) (Not offered 1976-77)

Past and present man-environment relationships are examined; principles of ecology, environmental ethics and esthetics are outlined; crucial alternatives for man are discussed. The stability of the environment is studied in relation to economic exploitation. Values and restoration of degraded environments are also considered. EXCLUSION: GGR173Y.

BIO230F

ECOLOGY I

(Formerly part of BIO230E)

2L, 3P

An introduction to ecological principles and concepts. The composition, structure, and function of natural ecosystems and their components will be surveyed. Laboratory work will emphasize directed exposure to a wide variety of nearby environments. P.F. Maycock and N.C. Collins. EXCLUSION: BIO230E (1975-76). PREREQUISITE: BIO100Y.

BIO231S

ECOLOGY II

(Formerly part of BIO230E)

2L, 3P

More detailed treatment of the concepts and principles covered in BIO230F. Laboratory work will involve ecological sampling techniques and analysis of competition, predation, and population and community dynamics. N.C. Collins and P.F. Maycock. Enrolment limited. EXCLUSION: BIO230E (1975-76). PREREQUISITE: BIO230F. BIO235Y recommended either as a pre- or co-requisite for further studies in ecology.

BIO232S

MAN AND ENVIRONMENT

2L, 1T

Past and present man-environment relationships are examined; principles of ecology as applied to man are analysed; concepts of environmental ethics and esthetics and crucial alternatives for man are discussed. J. Svoboda. EXCLUSION: BIO130Y, GGR173Y. PREREQUISITE: BIO230F/P.I.

BIO235Y

FIELD BIOLOGY

2T, 3P

(Formerly BIO135E)

(I)

A field and laboratory course to acquaint the student with plants and animals in the local environment. Collection techniques and observation are emphasized in the field. Identification of major groups of animals and plants is studied in the laboratory. Students will be required to make a collection of some group of organisms. D.L. Gibo and P.W. Ball. Enrolment limited. EXCLUSION: BIO135E(1974-75)

BIO241Y

CELL BIOLOGY

2L, 3P

Cell structure and function. Cell organization at the organelle and molecular level will be considered in bacterial, animal, and plant cells. Topics include the structure and function of membranes, nuclei, mitochondria, plastids, and other organelles. In the laboratory the student will become familiar with current techniques of cell biology. P.A. Horgen, D.H. O'Day and S. Ng. Enrolment limited. PREREQUISITE: BIO100Y.

BIO250Y

PLANT FORM AND FUNCTION

3P, 2T

A survey of the major plant groups from the higher algae up to the Angiosperms. The structure and life history of representatives are examined, including discussions of the functions of the major tissues and organs. The evolution of plants is discussed with particular reference to fossils. P.W. Ball and staff. PREREQUISITE: BIO100Y/P.I.

BIO251Y

ANIMAL FORM AND FUNCTION

2L, 3P

The "design" and adaptive consequences of vertebrate and invertebrate structures are examined. Mechanisms of prey capture, feeding, transport, gas exchange, body support, locomotion, and sensory perception are compared at the organ level. The student is encouraged to see beyond description in order to develop an appreciation of the adaptiveness of body parts. G.K. Morris, R. Reisz and P.J. Pointing. PREREQUISITE: BIO100Y.

BIO270Y

BIOLOGY OF PROTISTA

2L, 3P

A survey of the major groups of microorganisms including bacteria, viruses, protozoa, lower algae and fungi. The structure and life history of representative organisms are examined. The importance of the biology of microbes will be discussed especially with regard to ecology, pathogenicity and the scientific impact of studying certain "Microbial model organisms" in elucidating important basic principles in biology. J.F. Ammirati and Staff. Enrolment limited.
PREREQUISITE: BIO100Y.

BIO300F

TERRESTRIAL AND FRESHWATER BIOLOGY

This course will be offered at the Leslie M. Frost Natural Resource Centre, near Dorset, Ontario. Emphasis will be on principles and methods in plant and animal ecology, and gaining familiarity with local flora and fauna. Terrestrial and freshwater ecosystems will be studied. Opportunity will be provided for students to undertake projects of their own. Students are selected on the basis of their academic background, grades, and career goals. The course is given in the two week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Applications must be received by Erindale Biology Faculty Advisors before March 31st. Students selected will be notified promptly. Application forms are available from Biology Faculty Advisors. Enrolment limited.
PREREQUISITE: BIO100Y.

BIO301F

MARINE BIOLOGY

A field course in Marine Biology, at St. Andrews, New Brunswick, consisting of informal lectures and seminars with intensive field and laboratory work. Different marine habitats are examined in detail and the animals and plants associated with them are classified. Students carry out projects in which they are encouraged to develop their own ideas and interests. Lectures on special topics are given by the scientific staff of the Biological Station. Students are selected on the basis of their academic background grades and career goals. The course is given in the two-week period before the beginning of the fall term. Students must meet their own costs for board, lodging and transportation. Application forms are available from Biology Faculty Advisors. Enrolment limited.
PREREQUISITE: BIO100Y.

BIO320Y

PLANT PHYSIOLOGY

2L, 3P

The principal physiological processes, and the influence of environmental factors on them, will be studied in plants. Topics will include water relations, mineral nutrition, translocation, photosynthesis, respiration, general metabolism, and growth and development. W. R. Cummins. PREREQUISITE: BIO100Y, CHM150Y, BIO241Y.

BIO321Y

INTRODUCTION TO ANIMAL PHYSIOLOGY

2L, 3P

(II)

A comparative approach will be taken to the study of physiological processes in animals (including man). Emphasis will be placed on the understanding of underlying principles. Topics will include respiration, excretion, osmoregulation, ionic regulation, and the physiology of muscle and nerve. B.I. Roots. PREREQUISITE: BIO100Y, CHM150Y.

BIO322F

ANIMAL BEHAVIOUR I: SOCIAL FACTORS

2L, 3P

What animals do in responding to other organisms is considered from the viewpoint of the biologist. Students learn to describe and classify behaviour patterns and to interpret their immediate causes. Causal analysis involves a consideration of both external and internal state. Instinct is contrasted with the animals' ability to modify its behaviour during its lifetime. The relevance of evolution to the study of behaviour is emphasized. G.K. Morris. PREREQUISITE: BIO251Y/P.I.

BIO323S

ANIMAL BEHAVIOUR II: PHYSICAL FACTORS

2L, 3P

The responses of animals, largely invertebrates, to light, temperature, moisture, etc., both in the laboratory and in the field, as well as the consequences of their behaviour are discussed. Arthropods, typically, are used in prescribed and student-designed experiments in the laboratory to illustrate a variety of these responses. P.J. Pointing. PREREQUISITE: BIO251Y/P.I.

BIO324Y

ANIMAL PHYSIOLOGY

2L, 3P

A limited number of topics, including hormonal control of metabolism, mechanics of pulmonary ventilation, neuroendocrinology, and integration in selected regions of the mammalian brain will be studied in depth. F.E. Dudek. PREREQUISITE: BIO321Y/P.I. (CHM240Y, 270F recommended).

BIO330Y

PLANT ECOLOGY

2L, 3P

The relationships of plant species, populations, and complexes at the sociological, environmental, and physiological level. Practical field work, laboratory studies, and experimentation are included. The course provides a background for practical training in conservation and environmental quality research. P.F. Maycock and J. Svoboda. PREREQUISITE: BIO230E(1975-76)/P.I. (BIO235Y recommended). COREQUISITE: BIO235Y recommended.

BIO332Y

FRESHWATER BIOLOGY

2L, 3P

A functional analysis of aquatic ecosystems. Lecture topics include: physical environments of lakes and streams; determinants of algal, zooplankton, and fish productivity; determinants of species structure at each trophic level; the process of eutrophication. In the laboratory, aquatic measurement techniques and taxonomy and ecology of local plants and animals will be emphasized. When possible, the latter will be studied in the context of field and laboratory investigations. One two-day and three one-day field trips required. N.C. Collins. Enrolment limited. PREREQUISITE: BIO230E(1975-76).

BIO333F

ECOLOGY OF FOREST INSECTS
(Not offered 1976-77)

1L, 4P

With forest insects as examples, the characteristics of insects and their responses to the biotic and weather factors that influence their success, are discussed. The impact of insect outbreaks on forests, using case histories, is considered. In the laboratory recognition of various stages in the life history of forest insects and the characteristics of their attack on trees are stressed. P.J. Pointing. PREREQUISITE: BIO100Y/P.I. (BIO230E (1975-76) recommended).

BIO334F

MYCOLOGY: LOWER FUNGI

2L, 3P

(Formerly Fall Term of BIO334E) (Not offered 1976-77)
A study of the lower fungi including the slime molds, water molds, downy mildews, white rusts, bread molds and imperfect fungi. With emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory exercises will deal with representative genera of these fungi and include methods for their isolation and culture. Field work included. Alternates with BIO335F. J. Ammirati.
EXCLUSION: BIO334E(1975-76). PREREQUISITE: BIO100Y, BIO270Y (BIO250Y recommended).

BIO335F

MYCOLOGY: HIGHER FUNGI

2L, 3P

(Formerly Spring Term BIO334E)
A study of the higher fungi (yeasts, powdery mildews, black molds, cup fungi, morels, mushrooms, polypores, etc.) and lichens. With emphasis on their life histories, morphology, classification, ecology and significance to man. Laboratory exercises will deal with representative genera of these fungi and include methods for their isolation and culture. Field work included. Alternates with BIO334F. J. Ammirati.
PREREQUISITE: BIO100Y, BIO270Y (BIO250Y recommended).

BIO340Y

GENETICS

2L, 3P

(Formerly BIO240E)

Presents current concepts in genetics with examples drawn from microbes, plants, animals, and viruses to illustrate: the molecular structure of the gene, mechanisms of gene action and gene regulation, levels of genetic organization, basic population genetics, and genetic aspects of evolution. Practicals will include both plant and animal material used in directed and independent experiments although the major emphasis will be on *Drosophila*. D.L. Gibo and W.G. Filion.
EXCLUSION: BIO240E(1974-75). PREREQUISITE: BIO100Y (BIO241Y recommended). COREQUISITE: BIO241Y.

BIO351Y

INVERTEBRATE FORM AND FUNCTION

2L, 3P

(Formerly BIO351ES) (Not offered 1976-77)

Structural adaptations of invertebrate animals. Laboratories stress dissection and observation; living material is used wherever possible. Students become familiar with those structural features that form the basis of phylogenetic classification. Alternates with the pair of courses BIO354F-356S. G.K. Morris and P.J. Pointing. EXCLUSION: BIO351ES(1975-76). PREREQUISITE: BIO251Y.

BIO352Y

DEVELOPMENTAL BIOLOGY

2L, 3P

(Formerly BIO252E)

A study of the important developmental events in plants and animals, including: gamete formation, fertilization and organogenesis. Emphasis is placed on all levels of development from the molecular to organismic. Laboratory exercises stress the dynamic aspects of development by frequently using live material. P.A. Horgen and D.H. O'Day. Enrolment limited.
EXCLUSION: BIO252E(1974-75). PREREQUISITE: BIO100Y, BIO241Y.

BIO354F

VERTEBRATE FORM AND FUNCTION

2L, 3P

A continuation in greater depth of vertebrate topics begun in BIO251Y, with special emphasis upon morphological aspects of adaptation relative to function. Individual laboratory projects on selected vertebrates. Alternates with BIO351Y. R. Reisz. PREREQUISITE: BIO251Y.

BIO355S

TAXONOMY OF VASCULAR PLANTS

5P

(Formerly part of BIO350E) (Not offered 1976-77)

A survey of the flora of Ontario. The emphasis of the course is on the practical identification of plants both in the herbarium and in the field. P.W. Ball. Alternates with BIO456S. EXCLUSION: BIO350E(1974-75). PREREQUISITE: BIO235Y/BIO250Y/P.I.

BIO356S

MAJOR FEATURES OF VERTEBRATE EVOLUTION

2L, 3P

The evolution of the vertebrates as evidenced by the fossil record. Special emphasis will be placed upon the origin and adaptive radiation of amphibians and reptiles. Practical sessions will include the study of fossils, and techniques of collection and preparation. Occasionally laboratories will be held at the Royal Ontario Museum. Alternates with BIO351Y. R. Reisz. PREREQUISITE: BIO251Y.

BIO360F

BIOMETRICS I

2L, 3P

(Formerly part of BIO360E) (Not offered 1976-77)

(II)

An introduction to the basic principles and procedures of biological statistics. Topics will include probability, sampling theory, descriptive statistics, estimation, comparison of samples, analysis of frequencies, and correlation. Collection and analysis of biological data will be done in the laboratory. Students are advised to combine this course with BIO361S for a complete introduction to Biometrics. (Students who would normally have taken this course in the fall of 1976 are advised to take STA202F in its place. This will suffice as prerequisite for BIO361S for 1977 only). W.G. Sprules. EXCLUSION: BIO360E(1975-76), and any 200-level course in Statistics.

BIO361S

BIOMETRICS II

2L, 3P

(Formerly part of BIO360E)

(II)

A sequel to BIO360F in which additional topics in biological statistics are discussed. Regression, experimental design, non-parametric statistics, and a variety of analyses of variance are included. Collection and analyses of biological data will be done in the laboratory. W. G. Sprules. EXCLUSION: BIO360E(1975-76), and any 200-level course in Statistics. PREREQUISITE: BIO360F (or STA202F in 1976-77 only).

BIO370Y

MICROBIOLOGY

2L, 3P

In depth discussion of microbial structure and ultrastructure; physiology and nutrition; growth and cultivation; nature of viruses (bacteriophage and a limited survey of animal viruses and their properties); the role of micro-organisms in medicine, industry, agriculture, immunology, genetics, and ecology. A. Guha. PREREQUISITE: BIO100Y, CHM150Y. COREQUISITE: BIO270Y and CHM240Y are recommended.

BIO371S

VIROLOGY

2L, 3P

Fundamental principles and techniques of animal virology, including methods of tissue culture, virus cultivation and assay, and physiology of virus development, will be dealt with in detail. Staff. PREREQUISITE: BIO100Y, CHM150Y. COREQUISITE: BIO370Y (BIO270Y recommended).

BIO420S

ADVANCED PLANT PHYSIOLOGY

2L, 1T

Lectures, discussions, and student presentations from the current literature will be used to examine selected topics in plant physiology and development including plant hormones, water relations, morphogenesis, and plant photobiology. W.R. Cummins. PREREQUISITE: P.I.

BIO422S

ACOUSTIC BEHAVIOUR

3S

The role of sound in animal communication. Mechanisms of sound production and reception, the signal function of sounds, and recording and analysis techniques are the major topics studied. G.K. Morris. PREREQUISITE: Introductory knowledge of animal behaviour (e.g., BIO322F, BIO323S)/P.I.

BIO424F

BIOLOGY OF SENSORY SYSTEMS

2L, 3P

(Not offered 1976-77)

A comparative approach to sensory neurophysiology in a wide range of animals. The analysis of transduction and neural networks will incorporate anatomical, biochemical, and behavioural aspects of sensory systems. F.E. Dudek. PREREQUISITE: BIO321Y.

BIO430Y

WORLD ECOSYSTEMS

An investigation of the major plant and animal communities of the world. Their distribution, composition, structure, productivity, and dynamic aspects will be considered in relation to environmental influences. A two week field trip commencing the week before classes begin, provides practical experience in five of the major communities in the region from James Bay to Lake Erie in Ontario. P.F. Maycock. PREREQUISITE: BIO230E(1975-76), BIO330Y, P.I.

BIO431F

POPULATION ECOLOGY

2L, 1T

(Formerly part of BIO431E) (Not offered 1976-77)

A further development of population concepts introduced in Ecology I and II, including analyses of the components of population growth, population regulation, and the evolution of reproduction and mortality schedules. The problems of predators and energy budgets of individuals and populations will also be considered. Tutorials will involve practice with quantitative methods of analysis and discussion of papers from the literature. Alternates with BIO432S. N.C. Collins. EXCLUSION: BIO431E(1975-76). PREREQUISITE: BIO230E(1975-76)/BIO230F and BIO231S. COREQUISITE: CSC108F.

BIO432S

COMMUNITY ECOLOGY

2L, 1T

(Formerly part of BIO431E)

An animal ecology course dealing with patterns and processes at the community level. Topics will include community structure and diversity, community energetics, and biogeographical theories. Some computer analyses will be involved. Alternates with BIO431F. W.G. Sprules. EXCLUSION: BIO431E(1975-76). PREREQUISITE: BIO230E(1975-76), BIO360F, CSC108F, (BIO360E(1975-76) recommended). COREQUISITE: BIO361S.

BIO433F

ARCTIC ECOLOGY

2L, 1T

The Arctic environment (climate, landscape, frost phenomena) is investigated. The characteristics of soils and plant and animal life are described and studied. Problems associated with increasing human activity in the Arctic are discussed. J. Svoboda. EXCLUSION: GGR241Y(G). PREREQUISITE: BIO230E(1975-76) COREQUISITE: BIO230F.

BIO435S

BIOGEOGRAPHY

3S

The historical, descriptive, and dynamic aspects of large-scale distributional patterns of plants and animals are examined. Course work consists of lectures, class discussions and written assignments based on a variety of published material. G.R. Thaler. PREREQUISITE: BIO230E(1975-76)/P.I. (BIO340Y recommended).

BIO440F

POPULATION GENETICS

2L, 3P

(Not offered 1976-77)

The course is concerned with the behaviour of genes in populations. Mechanisms for changing gene frequencies, maintenance of genetic diversity, the consequences of population size, inbreeding, and selection, are some of the topics that will be covered. Laboratories include studies of gene frequencies in field populations and model testing. Alternates with BIO442F. D.L. Gibo. PREREQUISITE: BIO340Y.

BIO441Y

ELECTRON MICROSCOPY

1L, 3P

(Formerly BIO441EF)

An introduction to the theory and practice of electron microscopy and its application to the study of the ultrastructure of cells and tissues. B.I. Roots and Staff. PREREQUISITE: P.I.

BIO442F

EVOLUTION

2L, 3P

The course concentrates on current concepts in evolutionary theory. Mechanisms of speciation, development of mimicry, character displacement, the role of genetic drift and the founder effect are some of the topics that will be covered. Laboratories include selection experiments, model testing, and individual seminars. Alternates with BIO440F. D.L. Gibo. PREREQUISITE: BIO340Y

BIO444H

CYTogenetics

1L, P

(Not offered 1976-77)

The Chromosomal basis of heredity: the course involves lectures and student seminars dealing with current literature on such topics as chromosome structure, recombination, chromosome aberrations, human and molecular cytogenetics. Laboratory work will include both somatic and meiotic cell analyses. Alternates with BIO445H. W. G. Filion. PREREQUISITE: BIO340Y or equivalent.

BIO445H

BEHAVIOUR GENETICS

1S

An examination of the principles of genetics and psychology as they apply to understanding the behavioural development of man and other animals. Topics will include empirical studies of the interaction between genotype and environment as well as ethical and social implications arising from research with humans. Alternates with BIO444H. C.M. Carter and W.G. Filion. PREREQUISITES: BIO100Y and written P.I. (BIO340Y recommended) COREQUISITE: BIO340Y

BIO452S

CURRENT TOPICS IN DEVELOPMENTAL BIOLOGY

3L

The course focuses on the contributions of various scientists to the understanding of such problems as growth, cell division, cell communication, and morphogenesis. Informal seminar sessions involve critical discussions of recently published research articles. D. H. O'Day PREREQUISITE: BIO241Y, BIO352Y, P.I.

BIO455F

DEVELOPMENTAL MOLECULAR BIOLOGY

1L, 1T

An examination of recent information on the molecular control of development in eukaryotes. Current ideas on the regulation of nucleic acid biosynthesis (nucleo-proteins, hormones, "specificity factors") will be reviewed for plants, animals, and eukaryotic microbes. An analysis of how current data fit into the theoretical models of gene regulation and development will be made. The course will include student discussions of published research articles. This course is the same as BOT455F(G). Every other week the class meets on the St. George Campus. P.A. Horgen. PREREQUISITE: BIO340Y, BIO352Y, BIO241Y, P.I.

BIO456S

BIOSYSTEMATICS

2T

A consideration of the principles of taxonomy with particular emphasis on vascular plants. Topics to be discussed include the species concept, polyploidy, numerical taxonomy, geographical and ecological variation. Each student will be required to undertake an investigation of the variation found in a selected population of plants. Alternates with BIO355S. P.W. Ball. PREREQUISITE: BIO235Y/250Y, (BIO340Y recommended) COREQUISITE: BIO 340Y

BIO460Y

MICROBIAL ECOLOGY

2L, 3P

The role of microorganisms in nature and the effects, of human society. The course will cover four areas of the microbial ecosystem; the microbial community and its developments, interspecific relationships, the effects of microorganisms on their surroundings, and microbial aspects of pollution. S. Ng. PREREQUISITE: BIO370Y, BIO230E(1975-76). COREQUISITE: CHM240Y (CHM360Y recommended).

BIO470Y

MOLECULAR BIOLOGY

2L, 1T

To provide a background for students of biology and other sciences for further study in modern biology. The course will deal with microbial and viral genetics; the structure, function, and biosynthesis of nucleic acids and proteins; cell permeability; bioenergetics; regulatory mechanisms in bacteria; modern physio-chemical methods in studies of biomolecules, etc. A. Guha, P.A. Horgen. PREREQUISITE: BIO241Y, BIO370Y, P.I. COREQUISITE: CHM360Y

BIO480H

BIOLOGY RESEARCH PROJECT I

A research project carried out under the supervision of a staff member. Open to third and fourth year students. Written consent of staff member supervising the project must be obtained for registration. Staff.

BIO481H

BIOLOGY RESEARCH PROJECT II

Open only to fourth year students. A fourth year student may combine BIO480H and BIO481H into a single project. Written consent of the supervising staff member must be obtained for registration. Staff.

CHEMISTRY

Faculty Advisor: Professor I.W.J. Still

Chemistry is both a challenging intellectual pursuit and a dominant force in shaping modern civilization. Modern chemistry provides an understanding of the structures and properties of atoms and molecules and uses this knowledge to interpret and predict changes associated with chemical reactions. In addition to its vital role in modern science-based industry, chemistry has an increasingly important bearing on other sciences such as biology, the medical sciences, psychology, geology, metallurgy and astrophysics. As an intellectual pursuit it is also becoming increasingly recognized as a sound basis for other walks of life, combining as it does the need for both disciplined and imaginative thinking. This is reflected in the courses offered in the recommended programme in Chemistry. The basic core of chemistry courses, with ancillary Mathematics and Physics, will enable the student to choose courses at the fourth year level reflecting his specific area of interest.

The Chemistry programme offered at Erindale College is a very suitable preparation for those intending to teach chemistry in High School (Type A certificate), continuation into graduate work or entry into industry. It also includes courses for those working in cognate disciplines such as biology and earth and planetary sciences.

Chemistry Specialist Programme at Erindale

Year I CHM150Y, MAT135Y/139Y, PHY135Y

Year II CHM215F, 220Y/221Y, 230S, 240Y, MAT235Y/239Y/APM251Y.

(PHY230Y/another 200-series course in Science/Mathematics)

Year III CHM320Y/321Y, 330Y, 340Y, and CHM360Y or another Science or Mathematics

Year IV Three 400-series courses in Chemistry, and one additional course in CHM/MAT/another Science

Chemistry and Biochemistry Specialist Programme at Erindale

Year I CHM150Y, MAT135Y/139Y, PHY135Y, BIO100Y/110Y

Year II CHM220Y/221Y, 230S, 240Y, MAT235Y/239Y/APM251Y (CHM215F recommended)

Year III CHM320Y/321Y/330Y, CHM340Y, 360Y, 371H, 347S (BIO370Y recommended)

Year IV At least one BCH 400-series half-course and one CHM 400-series full course (or equivalent); one 300 or 400-series BCH or CHM full course (or equivalent)

Chemistry (with Physics) Specialist Programme at Erindale

Year I CHM150Y, MAT139Y/135Y, PHY135Y

Year II CHM220Y/221Y, 240Y/230S, APM251Y, MAT239Y, PHY254Y (CHM215F recommended)

Year III CHM320Y/321Y, 230S/240Y, 340Y/330Y, APM351Y, PHY230Y

Year IV Two 400-level CHM courses, two PHY courses from among PHY 352Y, 355Y, 450Y, and 455S & 456S, one additional CHM or PHY. Choice of fourth-year courses must be approved by the Chemistry Department.

Note: For a balanced training in Chemistry, students should take CHM320Y/321Y, 330Y, and 340Y

Chemistry Minor Programme at Erindale

The following courses are recommended as a suitable selection for combination with other minor programmes or as a coherent introduction to the basic essentials of chemistry.

CHM150Y/118Y, 215F, 220Y/221Y, 230S, 240Y; one from CHM320Y/321Y, 330Y, 340Y, and two other 300- or 400-level Chemistry courses. (Note: CHM320Y/321Y has a MAT prerequisite not required by other 300-level courses.)

Type A Certificate

For a chemistry specialist this requires a minimum of nine courses in chemistry with a B-average standing to be taken during a four-year course.

CHM118Y

GENERAL CHEMISTRY

3L(F), 2L(S), 3P

Fall Term: Descriptive chemistry, periodic trends, chemical stoichiometry, gases and liquids, statistical treatment of data, equilibria, thermodynamics, kinetics and mechanisms. (This material is identical with the fall term of CHM150Y.)

Spring Term: Applications of the principles of equilibria, kinetics and mechanisms; atomic and molecular structure, descriptive organic and inorganic chemistry -structures of solids, asymmetry in nature.

EXCLUSION: CHM150Y. PREREQUISITE: Grade XIII CHM. COREQUISITE: MAT130Y/134Y/135Y/139Y.

Note: CHM118Y is a sufficient prerequisite only for CHM215F and CHM270F of the higher-level chemistry courses unless special permission is obtained. This will be granted only for students of high standing and/or who undertake an assigned independent study programme during the summer and pass a qualifying test. Applications for this programme must be made to the CHM118Y/150Y instructors before May 1st.

Students who know that they wish to take only first year chemistry, or first year plus CHM215F and/or CHM270F, are encouraged to enroll in CHM118Y. Transfer to CHM150Y in the spring term will be allowed to those who change their mind and meet the CHM150Y requirements.

CHM150Y

BASIC CONCEPTS OF CHEMISTRY

3L(F), 2L(S), 3P

Fall Term: Descriptive chemistry, periodic trends, chemical stoichiometry, gases and liquids, statistical treatment of data, equilibria, thermodynamics, kinetics and mechanisms. (This material is identical with the fall term of CHM118Y.)

Spring Term: Introductory quantum theory and wave mechanics, atomic structure, periodic properties, bonding in molecules, introductory organic chemistry. (The laboratory courses of CHM150Y and 118Y are identical.)

EXCLUSION: CHM118Y. **PREREQUISITE:** Grade XIII CHM; a minimum of 60% in the fall term in order to continue in CHM150Y. Those not qualifying in this way must transfer to CHM118Y. **COREQUISITE:** MAT130Y/134Y/135Y/139Y (MAT135Y/139Y and PHY135Y required for specialist programmes in chemistry.)

Note; Only students intending to go on to higher-level chemistry courses should enroll in CHM150Y initially (see description of CHM118Y).

CHM215F

FUNDAMENTALS OF ANALYTICAL CHEMISTRY

2L,4P

Introduction to the theory and practice of classical analytical chemistry including gravimetric and volumetric techniques, oxidation-reduction methods in inorganic and organic analysis, basic electrochemical and calorimetric methods, analytical separation techniques and the treatment of analytical data.
PREREQUISITE: CHM150Y/118Y.

CHM220Y

INTRODUCTION TO PHYSICAL CHEMISTRY

3L

The following topics will be discussed - Basic thermodynamics, chemical potentials, thermodynamic manipulations, solution thermodynamics. Electrochemistry and solution chemistry. Surface chemistry, phase equilibria, and colloid chemistry. Reaction kinetics and catalysis (mechanisms). Introductory quantum mechanics and application to chemistry. Spectroscopy, including applications of infrared, ultraviolet, nuclear magnetic resonance, electron spin resonance. Introductory mass spectrometry and x-ray analysis. **EXCLUSION:** CHM221Y. **PREREQUISITE:** CHM150Y, MAT139Y/135Y. **COREQUISITE:** None (MAT239Y/235Y/APM251Y recommended).

CHM221Y

INTRODUCTORY PHYSICAL CHEMISTRY

3L,4P(S)

The lectures in this course will be identical with CHM220Y. The course differs in providing a 4-hour per week laboratory for half the year with selected experiments in physical chemistry. The sequence CHM221Y-CHM321Y is identical with CHM220Y-CHM320Y. **EXCLUSION:** CHM220Y. **PREREQUISITE:** CHM150Y, MAT139Y/135Y. **COREQUISITE:** None (MAT239Y/235Y/APM251Y recommended)

CHM230S

INTRODUCTION TO INORGANIC CHEMISTRY

2L,4P

Ionic bonding and lattice structures and energies. Solution chemistry and solubilities. Covalent bonding and stereochemistry. Descriptive chemistry of hydrogen and the first period. Introduction to transition metal chemistry and metal complexes. **PREREQUISITE:** CHM150Y

CHM240Y

INTRODUCTION TO ORGANIC CHEMISTRY

2L,4P(F)

The synthesis and reactivity of the major classes of organic compounds will be discussed from the standpoint of modern theories of structure and reaction mechanism. The chemistry of some natural products such as carbohydrates, amino-acids and peptides will also be considered.

The basic laboratory techniques and selected examples of the synthesis and spectroscopic analysis of organic compounds will be presented in the laboratory in such a way as to complement the lecture material. **PREREQUISITE:** CHM150Y.

The course will discuss the following physical chemical topics with special emphasis on their applications in the Life Sciences: solution chemistry, thermodynamics, colligative properties, kinetics, diffusion, molecular weight determinations by viscometry and sedimentation, movement of ions in solution and electrophoresis, chromatography and spectroscopy. PREREQUISITE: CHM150Y/118Y.

CHM315S

INSTRUMENTAL METHODS IN ANALYTICAL CHEMISTRY

2L,4P

This course is designed to provide an appreciation of the scope and limitations of some of the more common techniques of instrumental analysis. A range of instrumental experience is available in the laboratory to allow students to direct their programmes according to their individual interests and/or needs. The lectures will cover the basic theory behind many of the commoner instrumental methods and will discuss the general approach to analytical problems and the treatment of results. PREREQUISITE: CHM230S, CHM215F (CHM270F/220Y/221Y recommended).

CHM320Y

PHYSICAL CHEMISTRY 2L,4P (8 hours every second week)

Quantum statistical mechanics. The solid and liquid states. Physical chemistry of surfaces. Photochemistry. The long laboratory period allows quite advanced experiments to be undertaken. EXCLUSION: CHM321Y. PREREQUISITE: CHM220Y, MAT239Y/235Y/APM251Y.

CHM321Y

PHYSICAL CHEMISTRY

2L,4P(F)

The lectures in this course will be identical with CHM320Y. The laboratory will be one-half of the laboratory of CHM320Y and will consist of a selection of experiments in physical chemistry. EXCLUSION: CHM320Y. PREREQUISITE: CHM221Y, MAT239Y/235Y/APM251Y.

CHM330Y

ADVANCED INORGANIC CHEMISTRY

2L,4P

Chemical applications of symmetry theory. Descriptive chemistry of the main group of elements. Theories of bonding in transition metal complexes. Chemistry of metal carbonyls and nitrosyls, etc. Organometallic compounds and hydrides. Thermodynamics of complex formation. Mechanisms of reactions of metal complexes. Descriptive chemistry of transition metals. The laboratory course covers a wide range of synthetic and instrumental techniques and is associated with an informal programme of tutorials. PREREQUISITE: CHM230S.

CHM340Y

ADVANCED ORGANIC CHEMISTRY

2L,4P

The stereochemistry of organic compounds in relation to their physical and chemical properties and to factors affecting rates of reaction. Mechanistic aspects of organic reactions. The application of both stereochemical and mechanistic considerations to the synthesis of polyfunctional organic compounds in both lecture and laboratory. PREREQUISITE: CHM240Y.

The chemistry of selected classes of naturally occurring molecules will be discussed, with emphasis on structure, stereochemistry, properties and synthesis. Classes of compounds to be studied include: amino acids, peptides, proteins, carbohydrates, nucleosides, nucleotides, nucleic acids, terpenes, steroids and alkaloids. COREQUISITE: CHM340Y.

CHM360Y

BIOLOGICAL CHEMISTRY

2L, 1T

A lecture course in general biochemistry treating physical chemistry of proteins, enzyme reaction kinetics and mechanisms, metabolic processes and control mechanisms, biosynthetic pathways of small molecules, nucleic acids and protein synthesis, and bioenergetics. In the spring term each student will prepare a term paper, based on literature research in a topic of current biochemical interest, and will discuss it in a seminar. This course is an acceptable equivalent to BCH320Y/321Y as prerequisite for fourth-year courses in Biochemistry. PREREQUISITE: CHM240Y (CHM230S recommended). COREQUISITE: CHM220Y/221Y/270F (if not taken previously); CHM340Y recommended.

CHM371H

A LABORATORY COURSE IN BIOCHEMISTRY

3P

To complement CHM360Y and prepare for BCH471H (G). (Equivalent to BCH371H(G). COREQUISITE: CHM360Y and P.I.

CHM410Y

TOPICS IN CHEMISTRY

2L

A series of topics covering major areas of current interest in chemistry such as organometallic chemistry, organic synthesis, spectroscopy, photochemistry, thermodynamics, kinetics, organic and inorganic reaction mechanisms, and the chemistry of biologically important molecules. Each topic will comprise at least 12 lectures. Students' choice of topics must total ca. 50 lectures and must be approved by the Discipline Advisor. PREREQUISITE: P.I. and CHM220Y/221Y and three of CHM320Y/321Y, 330Y, 340Y and 360Y.

CHM411H

TOPICS IN CHEMISTRY

1L

This course will comprise 25 lectures on topics not chosen from CHM410Y and approved by the Discipline Advisor. PREREQUISITE: P.I. and CHM220Y/221Y and three of CHM320Y/321Y, 330Y, 340Y, and 360Y.

CHM415Y

DISSERTATION BASED ON LITERATURE RESEARCH

The dissertation will be based on literature research of a given area and would be expected to occupy one-fifth of a student's programme. Introductory reading will be necessary early in the course to bring students to a level where they can appreciate the most recent work in their topic. The dissertation will be conducted under the guidance of a chemistry faculty member on a topic other than the student's research topic in CHM419Y. PREREQUISITE: P.I. and CHM220Y/221Y and three of CHM320Y/321Y, 330Y, 340Y, and 360Y.

An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The total time involved would be of the order of 250 hours, and students, in addition to carrying out research on their own projects, will be encouraged to participate fully in the activities of their chosen research groups. A final report incorporating the aims and results of this research will be required. **COREQUISITE:** At least one 400-level chemistry course and P.I.

CLASSICS

(See also Greek and Roman History (GRH)
Greek and Latin Literature (GLL), and Latin (LAT))

Faculty Advisor: R.L. Beck

Classics is the study of the civilizations of Greece and Rome. The achievements of these civilizations are of interest in their own right, but they are also interesting in that they have been the foundation of so many aspects of our own civilization; of art, literature, philosophy, government. Courses in Classics thus present background material which is indispensable for the understanding of many other studies in the Humanities.

Courses are offered at Erindale in two main areas, neither of which requires knowledge of the original languages: (1) Greek and Roman History (GRH). (Upon petition to the Department of History students may receive credit for these courses toward the Specialist Programme in History.) (2) Greek and Roman Literature, read in translation (GLL). (This heading also includes the study of myth and religion.) Elementary courses in Latin (LAT) are also offered.

Minor Programme in Classical Civilization: The Programme consists of six full courses (or equivalents) which must include (i) one GRH course (ii) one GLL course (iii) FAH101 (Ancient Art), and (iv) three other courses chosen from offerings in GRH and GLL or relevant courses offered by other departments (e.g. PHL240F, 241S, HIS485Y, 486Y). Language courses in Latin or Greek may be included but are not required. The programme is designed to meet the needs both of students seeking a broad survey of Greek and Roman culture and of specialists in other Humanities subjects who require background knowledge of Classics for their particular interests, whether literary, historical or philosophical.

For courses in Classics see Greek and Roman History (GRH), Greek and Latin Literature (GLL), and Latin (LAT); also FAH101Y, HIS485Y, 486Y.

COMMUNICATIONS

Faculty Advisor: Professor A. Stein

The study of communications is a broad, interdisciplinary undertaking. It may include fields as varied as the behavioural and social sciences, electronic information storage and retrieval, the arts, journalism and the electronic media.

Our programmes are presently limited to the offering of a minor in Communication. They constitute a good preparation for the professions outlined above as well as for careers in teaching, counselling, education, advertising, research, etc. We aim to acquaint the students with basic theories and skills in various academic fields keeping in mind our communication perspective .

The introductory course is designed with this interdisciplinary focus in mind. The teaching staff has been selected from the fields of sociology, psychology, linguistics, philosophy, religious studies, physics and drama, and the media. Special instruction will be given to acquaint the student with the principles and techniques of audio-visual work.

In second year, students will have a chance to broaden their knowledge in linguistics, philosophy of language and communication through lectures and tutorials. In the third year, students will be able to engage in individual projects in the required courses. During these years, also, courses in political science, philosophy, religion, sociology, psychology and drama are offered as electives.

Detailed programmes will be available at the Registrar's office in the four centres and at Professor A. Stein's office, Room 211, North Building.

CMM100Y

INTRODUCTION TO COMMUNICATION THEORY AND RESEARCH

2L, 1T

This course aims at presenting the major theories of verbal and nonverbal communication. The principal purpose is to familiarize the student with the various possibilities of analyzing communication from the point of view of psychology, sociology, philosophy, linguistics, drama, physics and religious studies. The course further aims to acquaint the student with the research methods most commonly used in designing experiments in communication. P. Lorion and A. Stein.

CMM220F

APPLICATIONS OF COMMUNICATION TECHNOLOGY

2L

Bits, Bytes and Bandwidth, Shannon's Theorem. Fundamental physical limitations on information transfer. Impact of Technology - telephone, radio, TV cable. New storage techniques such as magnetic bubbles, holograms, etc. Computers, new transmission techniques, lasers, superconductors, satellites, etc. Social & Psychological Implications - the city as a communications device. Effect of shopping, learning and working at home. Future Shock and Information Overload. Increased individuality. Economic and Political Implications - Economic limit on the rate of innovation. Data Banks and Privacy. Communications vs. Transportation. Costs. Impact on Energy Resources. Government Control & Planning - The Telecommunication Study, Von Baeyer Report. The Trans-Canada telephone system. CRTC and cable companies. P.P.M. Meincke.

CMM284F

COMMUNICATION AND ETHICS

2L

This course examines the different ways that the flow and the content of information is controlled by various agencies, as well as the effects of censorship - or lack of it - on society. A. L. Stein. PREREQUISITE: P.I.

CMM309S

THE CANADIAN MEDIA

1L, 1T

Description and analysis of what is unique and distinctive about the electronic, printed and graphic media in Canada. Main topics of discussion: foreign influence in policy and decision-making (e.g. American ownership of major publishing firms), national networks in competition with private enterprise, the demand for more "Canadian content", the need for bilingual media, alternative presses, the handling of political crises and scandals in news reporting, etc. A. Stein.

Topics of study: 1. verbal and nonverbal aspects of the deviant labelling process, e.g., namecalling, exclusion, patronizing, etc. ; 2. alternatives of identity management by the stigmatized: accepting and adapting to the stigma, "passing", seeking to shed the stigma by therapy and rejecting the stigma; 3. verbal and nonverbal communication among members of the same stigmatized group, inter-group communication and communication between stigmatized and stigmatizer. Special emphasis will be placed on the communicational processes and media of the ethnic, the gay, the feminist and the "insane" liberation movements. The course will consist of lectures, discussions and simulated social encounters. Students will be expected to undertake "field research" during the second term. A.L. Stein.

PREREQUISITE: P.I.

Verbal and nonverbal interaction in therapeutic, educational, administrative and business settings. Special attention will be paid to leadership, effective and ineffective communication, persuasive manipulations, conflict situations, decision making, permission, protection and power. Some of the material will be presented in simulated social situations. A. Stein.

COMMERCE

Faculty Advisor: Professor L.J. Brooks

The objective of the programme in Commerce is to help students develop the analytical and problem-solving abilities required for effective decision-making in business, industry, governmental and other agencies and society in general. Those students who pursue the B.COM. programme at Erindale will have the opportunity to develop managerial skills in general as well as professional skills in accounting. Graduates of the programme have traditionally pursued careers in accounting and finance as well as undertaken graduate studies in law, management and economics.

Students who emphasize other subject matter in their degree programmes find that Commerce courses are useful for both understanding commercial operations in Canada and the development of the skills of analysis and decision-making vital in many areas of endeavour which involve the planning, organizing and controlling of activities.

The basic Commerce courses (COM100Y and COM223F/224S) introduce accounting systems and the bases for information systems for management. Other courses (300- and 400-level) examine structures, processes and problems in areas such as organizational behaviour, managerial operations in public and private organizations, marketing, the legal environment of business, accounting and taxation principles and practices and financial management.

For those interested in professional accounting, some of the Commerce courses qualify for credits in the programme in chartered accountancy offered by the Institute of Chartered Accountants of Ontario.

The B.COM. programme, which is now available at Erindale for all four years of study, is a 23 course programme. Though no longer required, students are advised to take five courses in the first year (COM100Y, ECO100Y and MAT134Y are suggested) and six courses in each of the subsequent years. Interested students should obtain a programme description ("The B.COM. at Erindale") and should consult the Faculty Advisor.

COM100Y

FINANCIAL ACCOUNTING

3L

Basic theory and concepts which underlie the preparation of financial statements; development of double entry theory and practice; the accounting cycle from the recording of transactions in double entry form to the year end entries and preparation of financial statements; problems of measuring income. Enrolment is strictly controlled. EXCLUSION: COM102Y.

COM221F

MANAGEMENT ACCOUNTING

2L

(Summer Session 1976 only)

Management control is introduced through case discussions. Topics include the relationship between cost, volume and profit; the elements of cost; overhead allocation; job order costs; process costs; budgeting; predetermined costs; and absorption and direct costing. PREREQUISITE: COM100Y/102Y (1975-76)

COM222S

INFORMATION SYSTEMS AND CONTROL

2L

(Summer Session 1976 only)

Includes information systems, control theory and practice, relevant costs, responsibility accounting, capital budgeting, and a survey of selected management science techniques. Through case discussions, the inter-relationships between information and control systems, managerial style and human behaviour are established. PREREQUISITE: COM221F

COM223F

MANAGEMENT ACCOUNTING I

2L

An introduction to the use of accounting data for management purposes including short and long run decision making, and the planning and controlling of operations. Specific topical coverage will include: relevant cost analysis, cost-volume-profit relationships, incremental profit analysis, absorption and variable costing, capital budgeting and selected mathematical techniques. The planning and control area will include: forecasting and budgeting, inventory control systems, and the analysis of variances. Cases will be used where appropriate. This is a required course in the Commerce & Finance programme and priority will be given to students in that programme. Enrolment is strictly controlled. RECOMMENDATION: COM320Y should be taken subsequent to COM223F. EXCLUSION: COM221F/222S (1975-76). PREREQUISITE: COM100Y/102Y.

COM224S

MANAGEMENT ACCOUNTING II

2L

An extension of COM223F to provide an understanding of the preparation of the data base used for the decision; and techniques discussed in COM223F, and to broaden the concept of the control environment. Topics will include: job order and process cost inventory systems, predetermined (standard cost) systems and advanced variance analysis, regression analysis, the behavioural impact of control systems, responsibility accounting, and control in the non-profit environment. Case discussions and computer applications will be used. RECOMMENDATION: COM320Y should be taken subsequent to COM223F. EXCLUSION: COM221F/222S (1975-76). PREREQUISITE: COM223F.

COM231S

FINANCE

2L

An introduction to business finance, this course considers capital budgeting as a basis for discussion of the role of the financial manager and the characteristics of various debt and equity instruments in Canadian capital markets. Not available to students in the Commerce & Finance Programme. EXCLUSION: COM331Y(G), 421Y, 337F. PREREQUISITE: COM221F (1975-76)/223F. COREQUISITE: ECO100Y/102Y(G).

COM300Y

THE LEGAL ENVIRONMENT OF BUSINESS

2L

The course has two main purposes: to develop an approach to reaching decisions objectively: to examine how the law, as an institution, accommodates business convenience and social policy. In addition, the nature of legal devices that are commonly encountered in the operation of a business is examined. The lecture periods take the form of class discussion of cases and of topical matters related to business law. Priority will be given to Third-year students in Commerce & Finance. PREREQUISITE: ECO100Y. COREQUISITE: COM221F and COM222S (1975-76)/COM223F and 224S or COM320Y.

COM320Y

FINANCIAL ACCOUNTING THEORY AND POLICY

2L

An extension of financial accounting topics previously covered, this course emphasizes areas of current concern such as inventory valuation; accounting for fixed assets and intangibles; corporate reorganizations; and inter-corporate investments. The case method of instruction is used extensively. This course may not be taken in the same session as COM223F/224S. Priority will be given to students who have completed COM221F and 222S or COM223F and 223S. PREREQUISITE: COM100Y/102Y (1975-76).

COM323Y

INTRODUCTION TO PUBLIC ADMINISTRATION

2L, 1T

(Not offered 1976-77) (Same as POL322Y)

The literature of public administration and some of the main issues of the present and recent past in Canada and to a limited extent in Britain and other countries. In other countries primary emphasis will be on policies or features that have influenced Canadian practice. PREREQUISITE: COM100Y/102Y (1975-76)/POL100Y. EXCLUSION: COM441F(G), COM442S(G).

COM324S

INVESTMENTS

2L

An introduction to the area of security analysis and portfolio management. Emphasis is placed on an analysis of bonds and common stocks. The course approaches investing as a rational decision-making process that meets a predetermined set of goals. PREREQUISITE: COM100Y/102Y(1975-76)/202Y(G), ECO202Y, COM231S/337F, ECO220Y/STA242Y.

COM332Y

ORGANIZATIONAL BEHAVIOUR

2L

Examines how the interrelationship between tasks, authority positions and the needs of the individual govern effectiveness in organizations. Students will consider problems of organization structure, interpersonal relations, attitudes, conflict and the management of change. The course also examines the relationships of organizations and their environments. Assigned reading, case studies and roleplaying exercises are used. Limited enrolment. PREREQUISITE: COM222S/223F/P.I. EXCLUSION: COM401Y(G).

COM337F

BUSINESS FINANCE

2L

This course takes an integrated approach to the financing, investment, and dividend decisions of the firm. Topics discussed include valuation models, cost of capital, capital budgeting, investment under uncertainty, the use of leverage, and dividend policy. This is a required course in the Commerce & Finance Programme and priority is given to students enrolled in that programme. EXCLUSION: COM231S, 331Y, 421Y. PREREQUISITE: COM222S/223F and MAT 130Y/134Y/135Y. COREQUISITE: One of ECO200Y/202Y.

COM400Y

MARKETING

2L

This course covers consumer behaviour and the managerial functions of marketing with emphasis on information acquisition. If enrolment has to be limited, priority will be given to Fourth Year students in the Commerce and Finance Programme. PREREQUISITE: COM202Y/221Y/223F/231S.

COM420Y

ACCOUNTING LITERATURE AND RESEARCH

2L

A seminar for the critical discussion of research bulletins and monographs of the leading accounting bodies in Canada, the United States and Britain, of articles in current issues of accounting journals, and of classic articles in books of readings. Its purpose is to provide a review of contemporary and controversial issues in accounting theory. Enrolment is limited. PREREQUISITE: COM320Y.

COM422Y

QUANTITATIVE SYSTEMS ANALYSIS

2L

A course dealing with quantitative analysis for management decision-making in the areas of marketing, finance, operations, personnel and the public sector. Models found applicable for the analysis of decision problems will be discussed such as: linear and non-linear programming, dynamic programming, network analysis, games and statistical decisions, Markov processes, and queueing models and simulation. The interface between the models and the human will form a basic theme of the course. PREREQUISITE: MAT134Y, one STA course.

COM423Y

CANADIAN BUSINESS TAXATION

2L

Designed to provide an introduction to both the technical provisions and broad policy issues involved in taxation of business enterprises in Canada. Emphasizes both the underlying social and economic policy issues of taxation and the understanding of technical income tax provisions. Preference will be given to students who have also completed ECO202Y or who (if specially registered) hold a university degree. PREREQUISITE: COM221F/223F, 222S/231S/224S.

COM426F

MANAGEMENT POLICY

2L

Deals with the management of an organization and its domestic environment in terms of the strategic issues of goal setting and operating policy formulation, implementation and control as a function of changing domestic, social and economic conditions. PREREQUISITE: COM222S/223F and ECO202Y/212Y. COREQUISITE: COM337F/437S.

COM427S

MANAGEMENT POLICY AND THE INTERNATIONAL ENVIRONMENT

2L

An extension of COM426F, deals with the managerial problems and opportunities which are a function of the changing economic environment. Topics include: managing operations abroad, foreign patterns of investment and their operational significance, parent-subsidiary relationships, multinational competition and government and supranational regulation of organizational activities. PREREQUISITE: COM426F.

COM428S

MANAGEMENT CONTROL

2L

The case method will be used to provide an understanding of the issues and environment of management control, and will integrate material from other courses in Commerce and Economics in the solution of problems in systems design and operation. Enrolment is limited and is by permission of the instructor. PREREQUISITE: COM223F/ (221F & 222S, 1975-76). Recommended: COM441F(G).

COM437S

BUSINESS FINANCE II

2L

The financial environment within which Canadian companies operate is considered. The course examines the social and legal significance of the corporation as one of the dominant institutions of modern society. This is a required course in the Commerce and Finance Programme and priority is given to students enrolled in that programme. EXCLUSION: COM331Y. PREREQUISITE: COM337S. COREQUISITE: One of ECO (310F(G) and 311S(G))/(325F and 326S)/328Y/COM425Y(G).

COMPUTER SCIENCE

Faculty Advisor: Prof. G. S. Graham

Computer Science is concerned with the use of computers to process information. A modern computer is expected to process many different kinds of information: business accounts and records, scientific calculations for engineering and the physical sciences, natural language text for linguists. Computer Science includes the identification of classes of problems that can be solved using computers, the study of ways of representing the relevant information in computer usable form, and the investigation of how to describe solutions best in terms of the operations that computers can perform.

A fundamental concept in Computer Science is the algorithm - a list of instructions which specifies the steps required to solve a particular problem. Two major concerns in Computer Science are the analysis of problems, frequently using the tools of mathematics and statistics, and the formulation of algorithms to solve particular classes of problems. Other areas of interest include the transformation of abstract algorithms into computer programs, and the testing and validation of algorithms and programs. Closely related to these areas are efforts to develop tools for designing better computers and for using them more effectively.

Course offerings are intended to serve a wide variety of students, ranging from those whose primary interest is in information processing, to those interested in applying computers in other fields. The specialist programme in Computer Science is designed to provide a student with the knowledge and skills needed to hold professional positions in the computer field and to prepare the student for graduate study. The specialist programme in Computer Science for Data Management is intended for students who plan to

pursue a career in information systems development, an area of increasing importance to business, industry and government. From this programme a student may also continue with graduate study in Computer Science. If certain optional courses in the Faculty of Management Studies, or their equivalents in Commerce, are taken in the third and fourth years, a student in this programme may qualify for advanced standing toward the MBA degree. The minor programme in Computer Science may be taken by students in other areas such as the humanities, social sciences, life sciences or physical sciences.

Students who wish to study computing primarily in order to use computer techniques in their own specialties should begin with CSC108F/S and CSC118S. A number of applications courses are then available in the second and later years. CSC336S is recommended for science students. CSC208S(G), 218F(G) and 300S(G) are other possibilities.

Students who are anticipating a career in secondary school teaching should select several courses from the following: CSC108F/S/148F, 118S/158S, 228S, 248S, 258F, 300S(G), 336S, 356F, 374F(G).

The specialist programme in Computer Science is:

Year I: CSC (148F/149F(G)), 158S; MAT139Y

Year II: CSC228S, 248S, 258F; MAT204F, 239Y

Year III: CSC336S, 348F, 356F; MAT319S; STA242Y

Year III or IV: Any two of CSC438F(G)/S, 441S(G), 446S(G), 448S, 451F(G), 478S(G) (including at least one of 438F(G)/S and 448S) and any two of CSC368S, 374F(G), 434F(G)/468F(G), 458S(G), 474S(G).

The specialist programme in Computer Science for Data Management is:

Year I: CSC(148F/149F(G)), 158S; COM100Y; ECO100Y; MAT134Y/135Y/139Y

Year II: CSC228S, 248S, 258F; COM221F/223F; ECO200Y; MAT234Y

Year III: CSC356F; COM222S/224S; MAT204F; STA242Y

Year III or IV: Any two of CSC336S, 348F, 364S(G)/438F(G)/S, 448S, 478S(G) and any three of CSC368S, 374F(G), 444S(G), 434F(G)/468F(G), 458S(G), 474S(G).

The minor programme in Computer Science is:

Year I: CSC(148F/149F(G)), 158S; MAT134Y/135Y/139Y

Year II: CSC248S, 258F; MAT204F/STA242Y

Year III and IV: A total of six CSC half-courses selected from the following groups:

At least two of CSC228S, 356F, 368S, 374F(G), 434F(G)/468F(G), 444S(G), 458S(G), 474S(G). At least two of CSC336S, 348F, 364S(G)/438F(G)/S, 441S(G), 446S(G), 448S(G), 451F(G), 478(G). Any of CSC208S(G), 218F(G), 300S(G).

Erindale students should note that CSC356F is designed to serve the purposes of CSC334F(G) or CSC378F(G) whenever they appear as exclusions, prerequisites, or corequisites.

CSC108F/S COMPUTER PROGRAMMING

2L, 2T

Introduction to programming in a high-level language. Algorithms, computer organization and solution of simple problems. Intended for students who want a general knowledge of computers. EXCLUSIONS: CSC148F, 149F(G), 178F(G) (1975-76). PREREQUISITE: Grade XII MAT.

CSC118S

PROGRAMMING APPLICATIONS

2L,1T

A continuation of CSC108F/S. Survey of the uses of computers. Emphasis on problems which arise from applications of computers in the areas of data processing, statistics, numerical calculations, and alphabetic information processing.
EXCLUSIONS: CSC158S, 178F(G) (1975-76). PREREQUISITES: CSC108F/S, 148F, 149F(G).

CSC148F

INTRODUCTION TO COMPUTING

2L,2T

Introduction to algorithms and problem solving with computers. Programming in a high level language such as PL/I. Structured programming. Illustrative applications. Elementary computer organization, assembly language, and compiling techniques. (This course is more intensive than 108F/S and is intended for students who plan to pursue the specialist programme either in Computer Science or Computer Science for Data Management or who wish to have a minor in Computer Science.) EXCLUSIONS: CSC108F/S, 149F(G), 178F(G)(1975-76). PREREQUISITE: Grade XIII MAT R&F and C COREQUISITE: MAT134Y/135Y/139Y.

CSC158S

COMPUTER APPLICATIONS

2L,1T

A continuation of CSC148F and CSC149F(G). The application of computers to various problems. Elementary numerical methods. Representation and manipulation of graphs. Some techniques of data processing. Construction and validation of computer simulation models. Other non-numerical applications.
EXCLUSIONS: CSC118S,178F(G)(1975-76). PREREQUISITE: CSC148F/ 149F(G).

CSC228S

PROGRAMMING TECHNIQUES FOR DATA PROCESSING

2L,1T

Introduction to data processing support for management information systems. Introduction to the COBOL data processing language. Structuring sequential files and file processing programs. Other topics include data encoding, validation and controls, external sorting, and generalized file processing systems. PREREQUISITE: CSC(149F(G) and P.I.)/158S/178F(G)(1975-76).

CSC248S

PROGRAMMING LANGUAGES

2L,1T

Programming language features including those useful for describing program flow, aiding readability and defining data structures. Emphasis on general-purpose languages; introduction to some special-purpose languages. PREREQUISITE: CSC(149F(G) and P.I.)/ 158S/ 178F(G)(1975-76).

CSC258F

COMPUTER ORGANIZATION

2L,1T

Computer structures, machine languages, instruction execution, addressing techniques and digital representation of data. Computer system organization, memory storage devices, micro-programming. Some case studies of actual machines to illustrate various computer architectures. PREREQUISITE: CSC(149F(G) and P.I.)/158S/178F(G)(1975-76).

CSC336S

NUMERICAL METHODS

2L,1T

Linear systems of equations, interpolation and approximation, nonlinear equations, quadrature, ordinary differential equations. The emphasis will be on the use of numerical methods for the computer solution of such problems. EXCLUSION: CSC351S(G). PREREQUISITE: CSC118S/ (149F(G) and P.I.)/158S/178F(G)(1975-76). COREQUISITE: MAT234Y/239Y.

CSC348F

INTRODUCTION TO APPLIED ALGEBRA

2L,1T

A study of the structures of modern and universal algebra with a view to applications to computer science. A universal algebra approach to the structures of modern algebra: semigroups, lattices, Boolean algebras, finite automata, groups, rings, and fields. Computer representation of algebraically structured data; introduction to algebraic manipulation by computer. EXCLUSION: MAT229Y(1975-76)/300Y. PREREQUISITE: MAT234Y/239Y.

CSC356F

TOPICS IN DATA PROCESSING AND INFORMATION STRUCTURES 2L,1T

Searching and sorting algorithms, retrieval and update algorithms. The representation and application of data structures in these and other algorithms. Management information systems. EXCLUSIONS: CSC334F(G), 378F(G). PREREQUISITE: CSC228S/(248S and 258F).

CSC368S

LANGUAGE PROCESSORS

2L,1T

Formal description and classification of programming languages. Specification of syntax. The parsing problem. Top-down and bottom-up parsing. Attaching semantics to syntax. Translator writing systems. EXCLUSION: CSC344S(G). PREREQUISITE: CSC356F.

CSC438S

COMPUTABILITY AND LOGIC
(Not offered 1976-77)

3L

Turing machines, recursive and primitive recursive functions, Kleene normal form theorem, unsolvable problems, recursively enumerable sets, computational complexity, propositional calculus, predicate calculus including the completeness, compactness, and Lowenheim-Skolem theorems, formal theories. (Offered in alternating years with CSC448S). EXCLUSION: CSC364S(1975-76). PREREQUISITE: CSC348F/MAT340Y(G)/MAT345Y(G).

CSC448S

AUTOMATA THEORY

3L

Sequential machines, finite automata and regular sets; generative grammars and languages (context free, context sensitive) and their relation to classes of automata (push down, linear bounded); complexity bounds for recognition, language decision problems, and operations on languages; generalized models of finite automata, and applications to program schemata, compiling, and decidable theories. (Offered in alternating years with CSC438S) PREREQUISITE: CSC348F/MAT340Y(G)/MAT345Y(G).

CSC494H

COMPUTER SCIENCE PROJECT

This half-course involves a significant project in any area of Computer Science. The project may be undertaken individually or in small groups. The course is offered by arrangement with a Computer Science faculty member. PREREQUISITE: At least three 300-level CSC half-courses and permission of the Discipline Representative.

DRAMA

Faculty Advisor: D.A. Trott

The study of drama invites the student to consider a form of art as old as man. Facilities at Erindale provide opportunities for a full and varied exploration of the nature of drama: courses in dramatic literature, theatrical history, and theatre practice enable the student to experience a number of different approaches to understanding. An equipped Studio Theatre is available for rehearsal and performance.

A minor programme in Drama is offered at Erindale: six courses are required, and must include DRA110Y, DRA200Y, and any two courses in dramatic literature. The programme will provide qualification for teacher training, or for further studies in drama. Interested students should consult the Faculty Advisor for full details.

DRA110Y HISTORY OF WESTERN THEATRE FROM ANTIQUITY TO THE PRESENT DAY. 2L,1S

A survey of the development of the arts of the theatre, covering the following major periods and styles: Ancient Greece, Rome, Mediaeval, Renaissance, Neoclassical, Baroque, 18C., 19C., and Modern Theatre (Europe); American Theatre. Subjects of study will include theatre architecture, stage design, techniques of acting, staging and production, costuming, lighting, and the social context of theatre (audiences, patrons).

DRA200Y ACTING 1 4P

Basic areas of acting technique in speech and movement; problems of portrayal of character; phenomena of theatrical communication (actor to actor, actor to audience, and "feedback") and techniques for their control. Students will be expected to participate in public productions and to prepare for classes as for rehearsal (line learning, research). Enrolment limited.

DRA300Y ADVANCED ACTING AND DIRECTING 4P

(Not offered 1976-77)

Detailed work on acting technique and the interpretation of the play text. Students will be expected to work on their own to a considerable extent, in preparation of scenes for group discussion, and to work on productions arising from the course. The work of DRA200Y will be continued in a more advanced and intensive way. J. Astington. PREREQUISITE: DRA200Y or equivalent. Enrolment Limited.

ECONOMICS

Faculty Advisor: Professor J.A. Hynes

Economics is a social science; that is, it is an exploration of the behaviour of people in society. It has a strong influence on the structure, well-being and development of a society. More specifically, Economics studies the ways in which the resources of a country (capital, labour, land and natural resources) are allocated between industries to efficiently produce the range of goods and services provided in the country each year. The decisions of what to produce, of production methods, and

how to distribute the goods and services provided must be made in each country irrespective of the political organization of the government in that country. Allocative decisions are made according to traditional patterns and customs; by government decree, policies and planning, and finally by the allocative mechanisms inherent in the price system.

At the aggregate level Economics considers such problems as the excessive levels of unemployment and inflation in the Canadian economy, and analyzes policies which can mitigate these burdens. The study of Economics also assesses the fairness of the tax burden, and the degree to which government spending can be justified. At a more micro or disaggregated level, economic analysis considers the determination of economic efficiency in different types of industry (e.g. oligopoly, and pure competition); the impact of anti-trust regulations, and the determination of prices of both outputs and inputs through the forces of supply and demand. Economic assessments of international trade patterns, tariffs and the consequences of foreign direct investment are also integral.

In addition, economic analysis focuses on such issues as pollution, poverty, the rate of economic growth and urbanization, regional disparities and custom unions, topics which are ubiquitous in today's newspapers.

The course sequence in Economics at Erindale is intentionally designed to accommodate the interests of both students who wish to specialize in this discipline, and concomitantly, those who wish a broader assessment.

Students who wish to concentrate in Economics may proceed into the Four Year "specialist programme" in Economics; into the Programme in Commerce and Finance, an internationally acknowledged joint major in Commerce and Economics which is offered at Erindale College, or into the "specialist programme" in Economics and Political Science. A "Minor" programme in Economics is also available.

Students frequently engage in joint majors in Economics and History, Geography, Mathematics or Sociology. A sequence in Economics is also suitable for those concentrating in the physical sciences.

The Four Year "specialist programme" in Economics requires at least eight full courses in Economics plus one each in Statistics and Mathematics. At Erindale, "specialists" must take all of the following during their second, third, and fourth years: ECO200Y, ECO202Y, ECO220Y/STA242Y, ECO326F and 325S, ECO322Y, and at least one full course in Economic History. Students who wish to be "specialists" should have attained a "B" average in their courses in Economics in Second Year and must register with the Faculty Advisor at Erindale at the start of their Third Year.

The "specialist programme" in Economics and Political Science requires standing in seven full courses in Economics and six full courses in Political Science. Erindale students should enrol annually with the Faculty Advisor in Economics or Political Science and must include: ECO100Y, ECO200Y, ECO202Y, ECO322Y, a course in Economic History. Two additional courses in Economics, POL100Y, POL214E, two of POL101Y/200Y/320Y and two additional courses in Political Science (one course from two of five fields).

The Minor programme in Economics for Erindale students requires standing in at least six full courses in Economics. Students must include the following in their programme: ECO100Y, ECO200Y, ECO202Y and at least three additional courses in Economics.

Students who concentrate in Economics frequently continue into graduate work in Business or Economics, or proceed into Law, Chartered Accountancy and many other areas of industry and government. Scientists, doctors, musicians and even potential astronauts who have been exposed to a series of courses in Economics develop a more sophisticated comprehension of the principal economic issues which confront society. Concomitantly those who have been exposed to a hardcore diet of rigorous economic analysis will find that it enhances their decision-making processes.

First year preparation includes ECO100Y and for the "specialists" either MAT134Y or MAT130Y.

ECO100Y

INTRODUCTION TO ECONOMICS

3L, 1T

A survey course with emphasis on the basic concepts and techniques of macro and micro economic theory. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; business cycle determination; the derivation and use of supply and demand schedules; the theory of the firm; and principles of comparative advantage and tariff protection. F.J. Reid, J.E. Pesando, M.J. Hare.

ECO200Y

MICRO ECONOMIC THEORY

2L, 1T

An intermediate treatment of the basic tools of economic analysis with applications to a wide variety of economic problems in the area of pricing, resource allocation, income distribution, and welfare economics. J.E. Floyd. PREREQUISITE: ECO100Y. EXCLUSION: ECO261Y.

ECO201Y

MODERN EUROPEAN ECONOMIC HISTORY

2L

The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1914. S.M. Eddie. COREQUISITE: ECO100Y.

ECO202Y

MACRO-ECONOMIC THEORY

2L, 1T

A detailed discussion of the theory of output, employment and the price level, and the techniques available for achieving economic stability; of central banking and Canadian financial institutions and markets, and of foreign-exchange markets. J.E. Pesando, J.A. Hynes. PREREQUISITE: ECO100Y. EXCLUSION: ECO261Y.

ECO220Y

QUANTITATIVE METHODS IN ECONOMICS

2L, 1T

An introduction to the use of statistical analysis, including such topics as elementary probability theory, sampling distributions, tests of hypothesis, estimation; analysis of variance and regression analysis. Emphasis is placed on applications in economics and business problems. PREREQUISITE: ECO100Y and MAT130Y/134Y. EXCLUSION: STA202F, 212S, 242Y, GGR202F, 212S, PSY200F, 201S.

ECO221Y

NORTH AMERICAN ECONOMIC HISTORY AND DEVELOPMENT

2L

An examination of the evolving patterns of economic development in North America. Comparative study of the growth experience of the major sectors will be undertaken with the objective of explaining leads and lags in these sectors. PREREQUISITE: ECO100Y.

ECO260S

THE ECONOMICS OF ENVIRONMENTAL DETERIORATION

2L

An analysis of the misallocation of resources caused by different types of pollutants. The course will stress both economic analysis and case studies. M.J. Hare. PREREQUISITE: ECO100Y and P.I.

After a brief summary account of scholastic and mercantilist economics, the lectures will trace in some detail the development of analytical economics from the eighteenth century with special emphasis upon the work of the Physiocrats; Adam Smith; the British Classical School (particularly T.R. Malthus, David Ricardo, and J.S. Mill); the "marginalists" (particularly W.S. Jevons, C. Menger and L. Walras) and Marx. Later developments will be examined if time permits. A number of methodological issues are raised, particularly the relationship between economic events and economic theory, and the question of "bias" in economics. D. Pokorny. PREREQUISITE: ECO200Y and ECO202Y.

ECO 324Y

ECONOMIC DEVELOPMENT

2L

Emphasis is on the economic conditions of low-income countries and the prospects of their economic transformation. Frequent reference will be made to specific issues affecting the nations of Africa, Asia and Latin America. M.J. Hare. PREREQUISITE: ECO200Y and 202Y or P.I.

ECO 325F

ADVANCED ECONOMIC THEORY - MACRO

2L

To develop analytical skills in construction and solving macro-economic models with particular reference to the Canadian economy. J.A. Hynes. PREREQUISITE: ECO202Y and MAT134Y or P.I.

ECO 326S

ADVANCED ECONOMIC THEORY - MICRO

2L

Focuses on theories and techniques of decision-making by firms and households. It examines the problem of measuring economic welfare, and the merits and shortcomings of the market mechanism in promoting it. M.A. Fuss. PREREQUISITE: ECO200Y and MAT134Y or P.I.

ECO 328Y

INTERNATIONAL ECONOMICS AND POLICY

2L

An analysis of the nature, effects and policy implications of international trade and finance. The theories of comparative costs and reciprocal demand; factor reward equalization; balance of payments and foreign exchange; international tariffs; liquidity; customs unions; and relevant topics related to current problems in international economic affairs. PREREQUISITE: ECO200Y and 202Y.

ECO 333Y

URBAN ECONOMICS

2L

The purpose of the course is two fold. To analyse the effects of government policies for regulating markets in urban areas using such examples as zoning, land speculation, rent control and strategies for pollution control. To evaluate current and proposed methods of providing and financing urban services including discussion of such topics as metropolitan government pricing of transportation services and the effect of the property tax. PREREQUISITE: ECO200Y.

ECO 336Y

CANADIAN PUBLIC FINANCE

2L

The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programmes and the tax structure; the problems and techniques of fiscal stabilization. PREREQUISITE: ECO200Y and ECO202Y.

ECO352Y

INDUSTRIAL ORGANIZATION

2L

Examines the allocative implications of market failure and the nature of oligopolistic and imperfectly competitive markets. Some emphasis will be placed on the Canadian anti-combines policy and the industrial implications of Canadian tariff policy. M.A.Fuss. PREREQUISITE: ECO200Y.

ECO360Y

ECONOMIC TRANSFORMATION AND TECHNOLOGICAL CHANGE

2L

An analysis of secular growth patterns in the industrial countries with emphasis on technological change and productivity increases. M.J. Hare. PREREQUISITE: ECO200Y and 202Y

ECO361F

LABOUR ECONOMICS AND LABOUR RELATIONS
(A continuation of ECO326F)

2L

Examines the economic aspects of trade unions and the effect of collective bargaining on earnings. Relationships between labour market conditions and the size of wage bargains are studied. The determinants of wage differentials and government manpower and educational policies are also considered. S.A. Rea. PREREQUISITE: ECO362F/S.

ECO362S

ECONOMICS AND THE LABOUR MARKET

2L

The supply and demand for labour, labour mobility, patterns of unemployment and the operation of labour markets are analyzed. PREREQUISITE: ECO200Y.

ECO366Y

AGRICULTURE AND ECONOMIC GROWTH:THEORY,HISTORY, POLICY 2L

The role of agriculture in economic growth, including analysis of models of agricultural development and land tenure and their effects on overall economic growth. Case studies to be drawn primarily from experience of European and East and Southeast Asian countries. S.M. Eddie. PREREQUISITE: ECO200Y or P.I.

ECO368F

ECONOMICS OF POVERTY

2L

Economic influences on the extent of inequality and poverty in Canada will be examined. These will include aggregate income levels, unemployment, inflation, regional development, education, low wage employment and discrimination. Canadian policies that affect the incidence of poverty are evaluated, and proposed programmes are critically analyzed. S.A. Rea. PREREQUISITE: ECO200Y or P.I.

ECO400Y

A READING COURSE FOR SPECIALISTS

Admission only by permission of the Discipline Representative in Economics at Erindale.

ENGLISH

Faculty Advisor: Professor V. De Luca

The Department of English offers an exceptionally wide range of courses. Whether the individual course is designed to provide a knowledge of one author's production or to focus attention upon major genres and the variety of critical approaches to them, or to survey an entire period, the underlying concern is to preserve and illuminate a distinguished literary tradition.

Courses are arranged in four series, a gradation which denotes the level of mutual expectation in the classroom and does not necessarily suggest alignment with the year in which the student is enrolled. Thus, courses in the 100-series are introductory; the 200-series provides a further selection of courses at an intermediate level; and more advanced courses appear in the 300- and 400-series. Because minimal prerequisites are required for courses beyond the 100-series, students in other disciplines have a wide variety of courses to choose from.

The Specialist Programme outlined under suggested Programmes of Study is conceived not so much to cover a prescribed body of material as to provide the student with the opportunity to become acquainted with the widest possible variety of authors and critical approaches, as well as with the literature at different periods in its history. It should not be assumed that the Specialist Programme is designed primarily for entrance into graduate school. The student contemplating further degrees should consult his instructors about the requirements of various graduate schools and make provision in his programme for the customary language requirements. Similarly, the student who is considering a teaching career in Ontario should consult the Faculty of Education for the requirements for Type-A certification.

The student who desires information beyond what is set forth in this Calendar may obtain brochures from the various colleges. These describe the content of courses in fuller detail and supply lists of tests suggested by the individual instructors. Counselling is available from the Academic Secretary as well as from other members of the English Faculty.

NOTE: First-year students are strongly advised to register for no more than two courses in English.

Courses open to first- and second-year students and to students in higher years who have had no more than one previous course in English.

The 100-series courses are designed to introduce students to English studies at the university level and to develop their skills in critical reading and writing. The range of subject matter is broad, but all courses have certain aims and methods in common. Each course will include works of poetry, fiction or drama; while these materials will be studied as individual literary achievements and in their relation to the general subject matter of the particular course, they will also serve to familiarize students with different literary forms and a variety of critical approaches. Each course will also be concerned to encourage the close and careful reading of literary texts and to provide an opportunity for students to develop their writing abilities.

ENG108Y FORMS OF TWENTIETH CENTURY LITERATURE

3L

At least twelve and no more than fifteen works by twentieth-century authors, including works by at least three novelists, three poets and three dramatists. These shall include Wolfe, To the Lighthouse, and Faulkner, As I Lay Dying; Beckett, Waiting for Godot, and O'Neill, Long Day's Journey into Night; poems by Yeats and Eliot.

A study of major figures from the medieval to the modern period; selections from: Chaucer, Spenser, Shakespeare's non-dramatic poetry, Donne, Milton, Dryden or Pope, Swift or Johnson, Wordsworth or Keats, Browning or Tennyson, Yeats or T.S. Eliot in The Norton Anthology of English Literature, one volume edition (revised). At least two plays and two novels, one of each before 1900. (Alternative or additional texts may be assigned by the instructor.)

(Not offered 1976-77)

The aim of this course is to develop basic techniques for the critical reading and enjoyment of poetry. Poems in many forms and styles will be studied closely with particular attention given to elements of poetry such as diction, rhythm, form, metaphor, voice and versification.

An introductory survey of major works in American literature. At least twelve works to be selected, including at least six written before 1900. The following will be studied early in the course: Moby Dick, Huckleberry Finn, The Scarlet Letter, Whitman, selected poems.

An introductory survey of poetry, prose, and drama, including works by such authors as the following: Moodie, Lampman, Haliburton, Grove, Leacock, Pratt, Birney, Callaghan, MacLennan, Laurence, Layton, Munro, Ondaatje, Richler, Reaney, Cohen, Atwood.

The course will focus on particular works as representative of various kinds of literature (e.g. drama, poetry, novel), as well as on critical approaches that have been developed for gaining a fuller understanding of literary works (e.g. structural analysis, study of imagery, psychoanalytic analysis). Texts: Shakespeare, Hamlet; Congreve, The Way of the World; selections from the poetry of Marvell and Hopkins; one of More, Utopia, Browne, Religio Medici or another similar prose work; two of Emily Bronte, Wuthering Heights, Faulkner, The Sound and the Fury and Forster, A Passage to India. At least four more works will be chosen to extend the range of forms and make possible additional approaches. Readings in literary criticism will be assigned.

Courses open to second- and higher-year students and to first-year students who are taking at least one 100-series course in English.

Poetry: Sidney, Spenser, Shakespeare, Donne, selected poems; Spenser, The Faerie Queene, selections; selected poems by at least three of Jonson, Herrick, Herbert, Marvell, Vaughan and Milton (minor poems); Milton, Paradise Lost (selections). Drama: Three non-Shakespearean plays; Shakespeare, two plays. Prose: at least three of Sidney, Apology for Poetry, Bacon, Donne, Milton, Browne. Background Reading: Two or more of More, Utopia, Erasmus, Praise of Folie, Machiavelli, The Prince, Castiglione, The Courtier (trans. Hoby) and Montaigne, Essays (trans. Florio).

ENG207Y

NINETEENTH-CENTURY ENGLISH LITERATURE

3L

Selected works of twelve writers illustrating the nature and range of English poetry, fiction, and prose in the nineteenth century. At least four authors will be chosen from Scott, Jane Austen, Wordsworth, Coleridge, Byron, Shelley, Keats; and at least four from Carlyle, Newman, Mill, Tennyson, Thackeray, Dickens, George Eliot, Ruskin, Arnold, Meredith, and Hardy. Not more than three novels will be read.

ENG212Y

SHAKESPEARE

3L

Special study of Romeo and Juliet, A Midsummer Night's Dream, Richard II, Henry IV, Parts I and II, Twelfth Night, Measure for Measure, Hamlet, Antony and Cleopatra, The Tempest. Additions or substitutions may be made by the instructor. Duplication with English 332Y will be avoided.

ENG218Y

MAJOR AMERICAN AUTHORS

3L

An intensive study of at least four and no more than six authors. At least three of the authors will be drawn from the following list: Cooper, Emerson, Hawthorne, Melville, Whitman, Twain, James, Eliot, Frost, Hemingway, Stevens and Faulkner.

ENG256Y

CANADIAN FICTION

3L

A minimum of fifteen works including at least one work from the nineteenth century and six of the following authors: Duncan, Leacock, Grove, Callaghan, MacLennan, Lowry, Laurence, Buckler, Davies, and Richler. Selections from an anthology of short stories.

ENG259F

CHILDREN'S LITERATURE

3L

An historical and critical study of works written for or appropriated by children. At least twelve works chosen from prose, poetry, and drama will be read, including Pilgrim's Progress, Alice in Wonderland, Gulliver's Travels, Treasure Island, Midsummer Night's Dream, The Wind in the Willows, Huckleberry Finn, The Borrowers, nonsense verse and nursery rhymes.

Courses open to second- and higher-year students.

ENG302Y

ENGLISH POETRY AND PROSE, 1500-1600

3L

Poetry: Selections from the poetry of Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including The Faerie Queene, Book I, at least two other books, and the Mutabilitie Cantos) and Donne. Other poets may be added. Prose: More, Utopia; Sidney, Defence of Poesy. Selections from at least two of the following writers: Elyot, Ascham, Haykluyt, Hooker, Lyly, Sidney (Arcadia), Nashe and Deloney. Additional reading from the following: Erasmus, Praise of Follie; Castiglione, The Courtier; Machiavelli, The Prince; Ariosto, Orlando Furioso. PREREQUISITE: one previous course in English.

ENG304Y

ENGLISH POETRY AND PROSE, 1600-1660
(Not offered 1976-77)

3L

Selected poetry of Donne, Jonson and their successors; Milton. Prose by such writers as Bacon, Browne, Burton, Milton, Traherne. PREREQUISITE: one previous course in English.

ENG306Y

ENGLISH POETRY, PROSE AND DRAMA, 1660-1800

3L

Selections from the works of at least ten of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, Young.

PREREQUISITE: one previous course in English.

ENG308Y

ROMANTIC POETRY

3L

Blake, Wordsworth, Coleridge, Byron, Shelley, Keats for special study; brief selections from other poets of the period such as Crabbe, Scott, Landor, Clare. Selections from relevant prose works of the period. PREREQUISITE: one previous course in English.

ENG312Y

CHAUCER

3L

Troilus and Criseyde; selections from the Canterbury Tales; further selections from Chaucer's work. PREREQUISITE: one previous course in English.

ENG322Y

FICTION BEFORE 1832

3L

At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Jane Austen and Scott. Three of the works will be: Richardson, Pamela; Fielding, Tom Jones; and Sterne, Tristram Shandy. PREREQUISITE: one previous course in English.

ENG324Y

FICTION, 1832-1900

3L

At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily Bronte, George Eliot and Hardy. PREREQUISITE: one previous course in English.

ENG328Y

FICTION, 1900-1950

3L

At least twelve works, including one or more by each of James, Conrad, Joyce, Lawrence and Faulkner. PREREQUISITE: one previous course in English.

ENG332Y

ENGLISH DRAMA TO 1642

3L

Examples of the miracle play, the morality play, the Tudor interlude, early Tudor and Elizabethan tragedy, comedy and romance; Marlowe: two or more plays; Shakespeare: at least seven of the following: Love's Labours Lost, Richard III, Much Ado About Nothing, As You Like It, Troilus and Cressida, Othello, Macbeth, King Lear, Coriolanus, The Winter's Tale; two plays by Jonson, and a selection of works by at least six other Jacobean dramatists. PREREQUISITE: one previous course in English.

ENG338Y

MODERN DRAMA

3L

A minimum of twenty representative modern plays including one or more by at least five of the following: Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter. PREREQUISITE: one previous course in English.

ENG346Y	VICTORIAN POETRY (Not offered 1976-77) The poetry of Tennyson, Browning, Arnold for special study: Selections from such poets as FitzGerald, Clough, D.G. Rossetti, C. Rossetti, Morris, Swinburne, Hopkins, Meredith, Hardy, Housman. Selections from the critical writing of Browning, Arnold, Clough, Swinburne, Meredith, Housman may be added. PREREQUISITE: one previous course in English.	3L
ENG348Y	MODERN POETRY Hopkins, Yeats, Pound, Eliot, Stevens and other poets. PREREQUISITE: one previous course in English.	3L
ENG351Y	TOPICS IN AMERICAN LITERATURE A study of one or more special topics in American literature, e.g., thematic, stylistic, or theoretical approaches; genre studies; detailed studies of particular periods or literary movements; the relationships between American writing and American social and intellectual history.	3L
ENG354Y	CANADIAN POETRY A minimum of fifteen poets from the nineteenth and twentieth centuries, at least nine of which to be chosen from the following: Crawford, Carman, Lampman, D.C. Scott, Pratt, F.R. Scott, A.J.M. Smith, Birney, Klein, Livesay, Layton, Avison, Purdy, Souster, Reaney. French-Canadian poetry in translation may be included. PREREQUISITE: one previous course in English.	3L
ENG369Y	SEMINAR IN WRITING Restricted to students who, in the opinion of the Department of English, show special aptitude for writing. Admission at the discretion of the Instructor. J. Skvorecky. PREREQUISITE: one previous course in English.	3L
ENG390Y	INDIVIDUAL STUDIES A scholarly project chosen by the student and supervised by a member of staff of the student's own college. The form of the project and the manner of its execution will be determined by the student in consultation with the supervisor. All project titles must be approved by a committee of the Combined Departments of English at the time of spring pre-registration in the previous year. Application forms are available from the Secretary of the Combined Departments of English. PREREQUISITE: three previous courses in English.	
Courses open to third- and fourth- year students.		
ENG404Y	STUDIES IN MIDDLE ENGLISH LANGUAGE AND LITERATURE PREREQUISITE: At least three previous courses in English, including ENG200Y or 312Y.	3L
ENG417Y	STUDIES IN NINETEENTH-CENTURY LITERATURE (Not offered 1976-77) PREREQUISITE: At least three courses in English, one of which must be 207Y/308Y/324Y/346Y/368Y.	3L

ENG419Y

STUDIES IN TWENTIETH-CENTURY LITERATURE

3L

(Not offered 1976-77)

PREREQUISITE: At least three courses in English.

ENG466Y

COMPREHENSIVE EXAMINATIONS

For description consult Departmental brochure. PREREQUISITE:
Normally three previous courses in English.

ENG467Y

SEMINAR IN LITERARY THEORY AND PRACTICE

3L

For description consult Departmental brochure. PREREQUISITE:
Normally three previous courses in English.

ENG469Y

SENIOR ESSAY

A scholarly project, chosen by the student, approved by the college department, and supervised by one of its instructors.
PREREQUISITE: Open to fourth-year students only, who have at least three courses in English.

EARTH AND PLANETARY SCIENCE (Geology and Geophysics)

Faculty Advisors: Professors H.C. Halls, B.N. Haugh, M.M. Kimberley, G. W. Pearce, P.-Y.F. Robin, R.M. Stesky

Earth and Planetary Science is concerned with the origin, evolution and structure of the Earth and planets, through the combined analysis of physical, chemical and biological processes. Recent theories of global dynamics and rapidly expanding horizons in lunar and planetary research are providing new insights into our understanding of the Earth's behaviour and its relationship to other planets.

In society, the earth scientist plays two important roles; he searches for rocks and minerals of economic value, and evaluates potentially hazardous phenomena in our natural environment. The exploration and development of natural resources constitutes one of the largest and most fundamental industries in Canada, and has always been a major employer of earth scientists, either as geologists or geophysicists. For many years the occurrence of earthquakes, volcanic eruptions and other natural hazards have been monitored on a global scale. Recent advances in the understanding of these phenomena have enabled earth scientists to become more involved in seeking ways to predict or even control them.

A career in Earth Science may lead to work in many parts of the world, under a wide variety of field conditions. Laboratory studies are also needed to supplement field observations and often require the use of sophisticated analytical equipment.

Erindale offers a broad spectrum of courses in Earth and Planetary Science, encompassing the fields of geophysics, structural geology, sedimentology, petrology, stratigraphy and paleontology. Two specialist programmes are offered which may lead respectively to careers in Geology or Geophysics, and are outlined below. Intending specialists should adhere closely to the specified programmes, particularly in the basic science requirement, to insure their acceptance on the St. George Campus in their fourth year.

For those students not intending to specialize, a minor programme in Geology is also described below. Many of the courses offered in Earth and Planetary Science may be useful to students specializing in other fields such as Environmental Geography, Survey Science, Biology and Anthropology.

Specialist Programme in Geology

A minimum of 10-1/2 Geology courses are required, with the completion by the end of the third year of 5-1/2 basic science courses including a 1/2 in Computer science. The Geology course requirement includes participation in two field camps which are held following completion of final examinations in the Spring terms of the second and third year.

Variations in the specialist programme, which place greater emphasis on one or other of the basic sciences are available upon request.

YEAR I	EPS120Y, CHM150Y/118Y, MAT135Y/139Y Recommended: PHY110Y/135Y, BIO100Y
YEAR II	EPS220Y, EPS225Y, EPS325F (Field course taken at end of Spring term) Recommended: EPS235Y
YEAR III	EPS321Y, EPS322F, 332S, EPS370F, EPS345S, EPS425F (Field course taken at end of Spring term). Recommended: EPS337F, 338S, EPS365F, EPS334S By the end of third year, students shall have completed the above courses plus: CSC108F/148F/108S and any <u>three</u> of MAT235Y/239Y/APM251Y, PHY110Y/135Y, PHY230Y, CHM220Y, BIO100Y, BIO230Y/251Y, STA242Y
YEAR IV	In their final year, specialists transfer to the St. George Campus and must take at least 3-1/2 courses from the (GLG/EPS300 and GLG/EPS 400-series), of which at least two must be from the 400-series. Total number of required courses: 16

Specialist Programme in Geology and Physics (Geophysics)

This programme is intended for students with a strong Mathematics-Physics background and requires a minimum of 7-1/2 Geology/Geophysics and 7-1/2 Mathematics/Physics courses.

YEAR I	EPS120Y, MAT135Y/139Y, PHY135Y, CHM150Y/118Y
YEAR II	EPS220Y/ EPS235Y, MAT239Y, PHY230Y
YEAR III	EPS337F, EPS338S/334S, EPS322F, 332S, PHY254Y, APM251Y Recommended: APM311F, EPS345S, 325F, 321Y, PHY211Y
YEAR IV	In their final year specialists take courses on the St. George Campus and must take: APM346S, one 400-series PHY course, and 2-1/2 GLG/EPS courses from the 300- or 400-series, and APM346S if APM311F not taken in third year. Total number of required courses: 16

Minor Programme in Geology

Students must complete at least 6 courses in EPS and two designated courses in basic science.

YEAR I EPS120Y, MAT135Y

YEAR II EPS220Y, EPS225Y/235Y, plus one of CHM118Y/150Y, PHY110Y/135Y,
 BIO100Y

YEARS III At least three courses from the EPS/GLG 300- or 400-series and IV

Total number of required courses: 8

EPS100E THE RESTLESS EARTH 2L, 1T

A course suitable for students in Humanities and Social Science who are interested in how some of the Earth's most spectacular natural features have been formed. Discussion will focus on the Earth's behaviour and evolution through examination of geological processes which have maintained the Earth in a continual state of unrest throughout its history - a history that spans more than 4 billion years. Topics include: Geological scales in time and space; space exploration and its bearing on the origin of the Earth and Moon; continental drift and the making of mountains, continents and oceans; the origin and evolution of life. G. W. Pearce. EXCLUSION: EPS120Y.

EPS110S MAN AND THE EARTH 2L, IT

A course suitable for students in Humanities and Social Science, which emphasizes the impact of natural earth processes on human activity. Topics include: A history of geological thought; the origin of man; the Great Ice age; natural disasters, past and present; Geology and the quest for ancient cultures; the search for oil and mineral wealth; gemstones, their occurrence and identification; solid waste disposal; the pollution of our environment. R. Stesky, H.C. Halls.

EPS119F ELEMENTARY MINERALOGY 2L

A course for those wishing to become acquainted with the beauty and diversity of the Earth's minerals. Various minerals are discussed from the viewpoint of how they form, where they occur and how they may be identified. Lectures are illustrated with mineral specimens including gems and ore-forming types. D.H. Gorman. EXCLUSION: EPS120Y.

INTRODUCTION TO EARTH AND PLANETARY SCIENCE 2L, 3P

An introduction for Science students to the study of planetary evolution and behaviour, through examination of the shape, motion and internal constitution of the Earth and Moon, and the physical and chemical processes that control their surface and internal characteristics.

The course places strong emphasis on field and laboratory work, and is recommended for anyone with a serious or peripheral interest in practical Earth Science. M.M. Kimberley and R.M. Stesky. EXCLUSION: EPS100F, EPS119F. PREREQUISITE: Grade XIII MAT R & E/CHM/PHY/BIO.

EPS220Y

MINERALOGY AND PETROGRAPHY

2L, 3P

First term outlines the principles of mineralogy, including crystallography, physical and chemical properties of minerals and descriptive mineralogy of some 70 species. D.H. Gorman.
Second term includes optical mineralogy, use of the petrographic microscope and the description of igneous, sedimentary and metamorphic rocks in thin section and hand specimen. H.C. Halls and R.M. Stesky. PREREQUISITE: EPS120Y. COREQUISITE: CHM150Y/ 118Y.

EPS225Y

STRATIGRAPHY AND PALEONTOLOGY

2L, 3P

The concept of geologic time is developed from a theoretical basis, and by application of the principles of stratigraphy to the local section and to stratigraphic correlation. The major theme of physical earth history and biologic evolution is developed by an integrated examination of the geologic rock record and the fossil record of plants and animals. B.N. Haugh. PREREQUISITE: EPS120Y/P.I.

EPS235Y

PHYSICS AND CHEMISTRY OF THE EARTH AND PLANETS

2L, 2P, 1T

Gravity, magnetism, acoustics, dynamics, electromagnetism, thermal physics and geochemistry are applied to a study of the major external and internal features of the Earth and Planets. G.W. Pearce. PREREQUISITE: PHY110Y/135Y, EPS120Y.

EPS321Y

PETROLOGY

2L, 3P

Uses hand-specimens and microscope petrography in the description, classification and interpretation of sedimentary, igneous and metamorphic rocks. J.B. Currie, J. Gittins, P.-Y.F. Robin. PREREQUISITE: EPS220Y, CHM150Y/118Y.

EPS322F

STRUCTURAL GEOLOGY I

2L, 3P

An introductory study of past and present deformation in the Earth's crust. The course examines methods of describing and classifying rock structures such as folds and faults and surveys briefly the mechanical behaviour of rocks and minerals. The development of structures such as shields, trenches and mountain chains is then examined within a global tectonic framework, using selected examples. Practical work includes two one-day field trips. P.-Y. F. Robin. PREREQUISITE: EPS120Y, EPS220Y/P.I.

EPS325F

FIELD COURSE I

An eight-day field course conducted in the northern Appalachians emphasizing elementary mapping methods and basic field techniques applicable to structural-stratigraphic studies. The Taconic orogenic belt along the south shore of the St. Lawrence and the adjacent craton will be examined. A fee, recently \$60.00, is charged to cover part of the cost of transportation and accommodation. The course is taken immediately following the conclusion of the Spring examinations. PREREQUISITE: EPS220Y.

EPS332S

STRUCTURAL GEOLOGY II

2L, 3P, 1T

A continuation of EPS322F with greater emphasis on strain analysis and the physics of rock deformation. The course discusses the dynamic interpretation and tectonic significance of rock fabrics, folds, joints, fractures and faults. Structures associated with emplacement of igneous rocks are also considered. P.-Y.F. Robin. PREREQUISITE: EPS322F, PHY110Y/135Y.

EPS334S

ADVANCED PHYSICS OF THE EARTH

2L,1T

A continuation of EPS235Y, emphasizing the quantitative physical description of the Earth. Topics covered in detail are: radiometric dating of rocks; the rotation and dynamics of the Earth; the Earth's gravitational and magnetic fields; and the internal structure of the Earth from seismic evidence. Extensive use is made of potential methods and solution of partial differential equations. D.J. Dunlop. PREREQUISITE: EPS235Y/P.I.

EPS337F

EXPLORATION GEOPHYSICS I

2L,3P

An introduction to the geophysical methods used in the search for mineral deposits. Basic principles, instrumentation, field procedures and elementary interpretation techniques, are outlined for gravity, magnetic and seismic methods. Practical work will emphasize field surveys. H.C. Halls. PREREQUISITE: EPS220Y, PHY110Y/135Y.

EPS338S

EXPLORATION GEOPHYSICS II

2L,3P

A continuation of EPS337F with emphasis on electrical and electromagnetic methods. Practical work consists of laboratory exercises and experiments designed to simulate natural situations. For those students who have completed the course and EPS337F, a series of weekend field trips are available, arranged by the Geophysics Division on the St. George Campus, just prior to the beginning of the fall term. H.C. Halls. PREREQUISITE: EPS220Y, PHY110Y/135Y, EPS337F. Recommended preparation: PHY230Y.

EPS345S

SEDIMENTOLOGY

2L,3P

Processes of weathering, chemical sedimentation, and diagenesis are related to theoretical geochemistry. Petrographic characteristics of sedimentary rocks are used as indicators of physical and chemical genetic processes. M.M. Kimberley. EXCLUSION: EPS344F. PREREQUISITE: EPS220Y, CHM220Y/P.I.

EPS365F

MARINE GEOLOGY

2L,1T

The morphology, structure and evolution of the ocean basins are examined within a global tectonic framework. R. Stesky. PREREQUISITE: EPS220Y.

EPS370F

PRINCIPLES OF PALEOBIOLOGY

2L,3P

Discusses the origin of life, development of fundamental levels of biologic organization, origin of major biologic groups and their fossil record. The principles of paleobiologic investigation are applied to fossil organisms with emphasis on functional morphology, paleoecology and ecosystem succession, extinction and paleobiogeography. B.N. Haugh. PREREQUISITE: EPS225Y. COREQUISITE: BIO251Y and BIO100Y recommended.

EPS400Y

RESEARCH PROJECT

A student research programme under the supervision of the staff. Copies of typed reports to be submitted by April 1st. PREREQUISITE: Any 2 full course equivalents from the EPS300-series, plus a 75% average in the last 5 courses taken.

A two week course held in the Tweed-Hungerford area of Ontario. One week is devoted to instruction and practice on basic geological mapping and one week to detailed structural analysis. A fee, recently \$100.00, is charged to cover part of the costs of meals and accommodation. The course is held immediately following the conclusion of the Spring examinations. PREREQUISITE: EPS321Y, EPS322F, EPS332S.

FINE ART

Faculty Advisor: Professor L. Eileen

The study of works of art provides insight into the nature of the societies in which they were created, and is one of the ways of gaining understanding of human culture in general. More specifically, the creative process leading to the making of a work of art is a subject worthy of study in its own terms. Students of Art History and Studio Art attempt to comprehend and interpret this process through learning critical and research methods and through actual practice. The subjects of their study are the visual arts: architecture, sculpture, painting and the applied arts. Such studies also complement related disciplines, of which history, philosophy and literature are examples.

Specialization in Fine Art can lead to professional work in galleries or museums, teaching at the high school or university levels, careers in illustration and design, or independent artistic activities. For post-graduate work in the History of Art, a reading knowledge of French and German and, depending upon special interests, Italian or Latin or Greek, is required; this can be most easily obtained during the undergraduate years.

Erindale College offers courses in both Art History (FAH) and Studio Art (FAS). The student can work toward a specialization in these areas, or follow a programme of combined Art History and Studio courses.

Students wishing to follow a specialist's programme in Fine Art (Art History) can take the majority of their courses at Erindale College, but, at the present time, must commute to the St. George Campus for part of their studies. (See the Calendar of the Faculty of Arts and Science, University of Toronto, for a description of the requirements for specialization in Art History.)

A special programme in Art education is conducted in co-operation with Sheridan College of Applied Arts and Technology. After three years of a combined Art History and Studio Art course the student will obtain a B.A. degree in preparation for entering the Type B Certificate course at the Faculty of Education, for further general studies in art, or for careers in art galleries and museums. Credits in Studio Art are obtained by enrolling for those courses which are held at Sheridan College of Applied Arts and Technology. Selected students enroll for five credits in Studio Art during their degree programmes. The remaining arts and science credits will be taken from the regularly scheduled courses offered by Erindale College, and it is required that a minimum of three of these courses be in Art History. In order for the student to be eligible for a Type A Certificate, a four-year degree is necessary, with further work in Fine Art.

It should be noted that all of the courses at Sheridan College are half courses. Ten of these half courses must be taken in order to complete five Studio credits.

Those students who hope to use the Studio credits to complete a four-year specialization in Fine Art (Studio) must apply to the Department of Fine Art at the St. George campus, where each application will be judged on an individual basis.

Students who seek to enter the Art Education Programme or to specialize in Fine Art are required to consult the Faculty Advisor and enrol at the Fine Art office during the registration period.

FAH101Y	ANCIENT ART	3L
	A survey of the art of Greece and Rome. Emphasis is placed upon the importance of architecture and the arts as characteristic expressions of their age; this concept is illustrated by detailed study of the outstanding monuments. T.G. Elliott	
FAH102Y	MEDIEVAL ART AND ARCHITECTURE	2L,1T
	A selective survey of the art of the Middle Ages. The study of Early Christian, Byzantine, and Early and Late Medieval art and architecture will be combined with a more general introduction to the language of visual expression and its interpretation. L. Eileen..	
FAH200Y	EUROPEAN ART FROM 1400 TO 1750	3L
	A survey of the major forms of expression in the visual arts - architecture, painting and sculpture - with special emphasis on visual analysis of these. Political, religious and general cultural movements will be considered. PREREQUISITE: FAH101Y/102Y.	
FAH210Y	PAINTING AND SCULPTURE IN EUROPE FROM NEO-CLASSICISM TO WORLD WAR II	2L,1T
	A selective survey of developments in the main tradition of Western art, exclusive of architecture (see FAH211Y) B. Welsh. EXCLUSION: FAH201Y(1975-76), 283F, 284S. PRE-or-COREQUISITE: FAH200Y or P.I.	
<u>FAH211Y</u>	ARCHITECTURE IN EUROPE AND NORTH AMERICA SINCE THE BIRTH OF NEO-CLASSICISM	2L,1T
	A selective survey of architectural developments in Western culture since the late eighteenth century, with special emphasis upon the interaction between European and North American modes. B. Welsh. EXCLUSION: FAH211F. PRE-or-COREQUISITE: FAH200Y.	
FAH310Y	PAINTING AND SCULPTURE IN CANADA AND THE UNITED STATES	3L
	A history of these arts in North America from the later 17th century with special emphasis on their relationship to European traditions, the growth of distinctive national styles, and international interaction. PREREQUISITE: FAH200Y/201Y/210Y/287F.	
<u>FAH318F</u>	VINCENT VAN GOGH AND NINETEENTH CENTURY EUROPEAN PAINTING	2S
	An investigation of the role of this artist in relation to the Romantic, Realist, Impressionist, Neo-Impressionist and Symbolist movements in European painting. Enrolment limited. B. Welsh. (Recommended preparation: a reading knowledge of French, German or Dutch) PRE- or COREQUISITE: FAH201Y/210Y and P.I.	

FAH319STHE EXPRESSIONIST TRADITION IN TWENTIETH CENTURY PAINTING AND
SCULPTURE

2S

A continuation of FAH318F, the course concentrates upon such twentieth century masters as Matisse, Kirchner, Kandinsky, Nolde, Arp, Miro and Pollock. Enrolment limited. B. Welsh. (Recommended preparation: a reading knowledge of French or German) PRE- OR COREQUISITE: FAH201Y/210Y and P.I.

FAH326Y

ITALIAN MEDIEVAL PAINTING AND SCULPTURE

2S

A selective study of mural painting, manuscript illumination, panel painting and sculpture in Italy between the eleventh and the fourteenth centuries. The regional schools will be defined and the careers of influential individuals in the latter part of the period will be examined. Enrolment limited. L. Eileen. (Recommended preparation: a reading knowledge of Italian or German.) PREREQUISITE: FAH102Y or P.I.

FAH346Y

ART AND LITERATURE

2S

Consideration of various types of illustrative art, including illustrated texts and history and genre painting, and, where appropriate, of the relationship of text to picture. The problems chosen for study will be selected from the late antique to the modern period. Enrolment limited. L. Eileen. PREREQUISITE: any two Art History courses and P.I.

COURSES AT SHERIDAN COLLEGE**(Subject to limited enrolment)**

The programme consists of 5 credits (2 in each of the first 2 years, 1 in the third). No more than 5 credits may be taken. It should be noted that all of the courses listed are half-courses, and that they are subject to limited enrolment. It is required that students in the Combined Programme maintain a balance between academic and studio courses.

FAS143H

FILMMAKING

3P

(FLM 7131 Sheridan, formerly FAS243EH)

An introduction to the art and language of filmmaking, combining practice with analysis and evaluation of films on the basis of style and historical context.

FAS145H

DRAWING AND PAINTING I

3P

(DGE 6170 Sheridan)

The first part of the programme will be devoted to an exploration of various artistic materials, discovering the characteristic properties of each and learning to appreciate them for their own sakes. The values of colour, tone, texture and line will be dealt with and used in a positive way.

FAS146H

DESIGN I

3P

(DNE 6140 Sheridan)

A course intended to introduce the elements of 2-dimensional design, colour, basic typography, layout, and their utilization within Graphic Design. Exercises and projects demanding the increasingly competent use of basic graphic designers' tools and media will be presented to the students. A problem-solving approach based on awareness of the elements of design will be used.

FAS147H

PHTOTOGRAPHY I
(PYE 6150 Sheridan)

3P

This course is designed to show the potential of photography as a creative communication form. The student will receive studio and classroom instruction alternating with darkroom practices. Various camera systems will be discussed. This will allow the student to become confident in the use of photographic equipment.

FAS244H

PRINTMAKING I
(PME 6240 Sheridan)

3P

An introductory course in printmaking, emphasizing the techniques of linoblock, woodblock, and silkscreen. Familiarity with materials and techniques will be stressed, through practice and through the study of the work of printmakers of past and present, proceeding to an understanding of the total visual concept. PREREQUISITE: FAS145H and FAS146H or P.I.

FAS245H

DRAWING AND PAINTING II
(DGE 6270 Sheridan)

3P

The student will be encouraged to isolate various ideas and senses in graduated steps so as to concentrate on a single important aspect, i.e. movement, form, solidity, structure, anatomy, proportion and composition. Each student will be encouraged to discipline himself by doing certain exercises to increase insight, observation and understanding. However, stress will be placed on experimentation in a variety of media. PREREQUISITE: FAS145H or P.I.

FAS246H

DESIGN II
(DNE 6240 Sheridan)

3P

During the second year of design, the student will continue the study of text types and applications. The topics will include the history and use of the symbol. Signage, magazine layout, book design, illustration, and use of photography in the design field will be examined in greater depth. PREREQUISITE: FAS145H or P.I.

ONE OF:

FAS247H

PHTOTOGRAPHY II
(PYE 6250 Sheridan)

3P

The aims of the course are to develop further the technical skills acquired during the first year, to investigate and experiment with the historical and conceptual approaches to the photographic medium, and to encourage the personal style of each student. Enrolment limited. PREREQUISITE: FAS147H.

OR

FAS248H

ANIMATION
(ANE 6210 Sheridan) (formerly FAS148EH)

3P

This course will assist students in gaining the necessary understanding and ability to explore animation as an art form. Animation is a new tool for self-expression, which adds the dimension of movement to graphics. PREREQUISITE: FAS143H.

ONE OF:

FAS344H

PRINTMAKING II

3P

Continuing the historical and practical approaches to the problems of printmaking, the course will investigate advanced studio techniques in silk screen, relief and intaglio printing. The students will be requested to establish written guidelines as criteria for assessment of their prints. PREREQUISITE: FAS244H.

OR

FAS345H

DRAWING AND PAINTING III
(DGE 6370 Sheridan)

3P

A continuation of FAS245H. Greater attention will be given to individual development in the perceptual and conceptual understanding of art. EXCLUSION: FAS344H. PREREQUISITE: FAS245H or P.I.

ONE OF:

FAS346H

CERAMICS
(CSE 6370 Sheridan)

3P

This course provides students with a knowledge of ceramics, guiding them towards a personal means of expression. The historical evolution of shapes, techniques and materials in various cultures will be discussed. PREREQUISITE: FAS246H or P.I.

OR

FAS349H

METAL
(MLE 6370 Sheridan)

3P

This course provides students with a basic knowledge of the techniques of working metal, including copper and steel, in both two- and three-dimensional designs. PREREQUISITE: FAS246H or P.I.

FRENCH

Faculty Advisor: Professor D.A. Trott

The impact of French culture on the world as we know it has been profound and lasting. Indeed, no understanding of European and even North-American patterns of thought may be said to be complete without a prior understanding of the contributions made to these patterns by Frenchmen on both sides of the Atlantic. The French programme at Erindale College offers students a wide range of courses designed to provide both the tools and basic material for the study of our French heritage.

For students wishing to pursue a programme leading to a high level of competence in French, we offer a series of language courses (FRE101Y, 121Y, 171Y, 271Y, 371Y, 471Y) using modern methods and maximizing the individual's contact with his instructor. Native speakers of French are not permitted to take for credit FRE171Y nor FRE271Y. Such students, however, will be admitted to any courses for which FRE171Y and FRE271Y are prerequisites.

LANGUAGE PROFICIENCY TESTS

Level I: Students registered in FRE121Y and 171Y will take a Placement Test early in the term. The test results will determine whether a student should move to a more advanced or a less advanced language course.

Level II: An advanced language test will be scheduled early in the term for the following students:

- (1) those registered in Canadian Studies or Drama Studies, and seeking exemption from prerequisites for 300-and 400-series French courses.
- (2) exceptionally qualified students seeking exemption from FRE271Y. These students must first consult with the Department.

For those wishing a full programme of French Studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for a four-year specialist degree in French Language and Literature. These offerings include the study of French as a language system, the study of various critical approaches to literature, and the study of both French and French-Canadian literatures.

In addition to its usefulness as a means of communication, French can also lead to careers in the civil service, international agencies, translation and interpretation, and teaching, as well as to graduate study.

The Specialist Programme in French Language and Literature requires standing in a minimum of 10 FRE courses (7 for a minor programme) taken as part of a 20 course programme. The intending specialist in French must satisfy the following requirements:

1. Successful completion of the University French Specialists' written and oral examinations - normally prepared for through the sequence of courses FRE171Y, 271Y, 371Y.
2. FRE140Y/142Y or, at an early stage, a literature course from another department which in combination with FRE171Y serves as a prerequisite for 200-series literature courses.
3. One of the following linguistics courses: FRE272Y, 273Y, 374Y or Independent Study on a linquistic or stylistic topic.
4. One of the following literature courses primarily devoted to texts prior to 1800: FRE220Y, 222Y, 316Y, 352Y, 418Y or Independent Study in the area.
5. One of the following literature courses primarily devoted to texts after 1800: FRE230Y, 332Y, 354Y, 364Y, 366Y, 424Y or Independent Study in the area.
6. Four courses (3 courses for a minor: 400-series not obligatory) from the 300- or 400-series of which at least one must be from the 400-series (excluding FRE471Y).
7. Obtain a mark of at least 70% in seven FRE courses (5 for minor).

COURSES NOT REQUIRING GRADE XIII FRENCH

These courses cannot be counted toward specialization in French, Modern Languages and Literature, or a minor in French.

FRE101Y INTRODUCTORY FRENCH

3S,2P

A basic course in spoken and written French, giving the beginning student a solid grounding in comprehension, speaking, reading, and writing. This course prepares the student for FRE121Y. It does not fulfill the requirements for admission to FRE171Y. J. LeGall. Not open to students who have studied French in secondary school. Not open to native speakers of French.

FRE121Y INTERMEDIATE FRENCH

3S,2P

A course in spoken and written French, reinforcing writing skills, oral/aural competence, and reading comprehension. Successful completion of this course will meet the prerequisite for FRE171Y. J. LeGall. PREREQUISITE: FRE101Y, or some background in secondary school French. Not open to native speakers of French.

COURSES REQUIRING GRADE XIII FRENCH

FRE140Y	STUDIES IN MODERN FRENCH LITERATURE	2L,1T
	This course is intended as a practical introduction to the techniques of literary criticism and analysis, based on a detailed study of specific works selected from the novel, drama and poetry of the 19th and 20th centuries. D.A. Trott. COREQUISITE: FRE171Y.	
FRE142Y	STUDIES IN FRENCH-CANADIAN LITERATURE	2L,1T
	This course is intended as a practical introduction to the techniques of literary criticism and analysis, based on a detailed study of specific French-Canadian works selected from the novel, drama, and poetry. Staff. COREQUISITE: FRE171Y.	
FRE171Y	LANGUAGE PRACTICE	3S,2P
	A course designed to help students reinforce and develop those language skills (reading, understanding, writing, speaking) which are necessary for active participation in courses offered by the department. Staff. PREREQUISITE: Grade XIII French/FRE121Y. Not open to native speakers of French.	
	200-SERIES COURSES	
NOTE:	The general prerequisite is FRE171Y; additional prerequisite for literature courses is FRE140Y/142Y or a literature course from another department.	
FRE220Y	THE LITERATURE OF CLASSICISM	1L,1T
	A study of the major writers of the 17th century with emphasis upon aesthetic and moral characteristics which constitute "classicism". D.A. Trott.	
FRE222Y	LITERATURE OF THE ENLIGHTENMENT	1L,1T
	A study of the revolution in social, political, religious and intellectual values which characterized the literature of the 18th century. Its principal authors - Montesquieu, Voltaire, Diderot, Rousseau - raised issues which neither the Revolution nor the 20th century has satisfactorily resolved. A.L. Stein.	
FRE230Y	THE LITERATURE OF FRENCH CANADA TO 1960 (Not offered 1976-77)	1L,1T
	A study of selected novels, drama and poetry. The texts will be studied from the historical, sociological and aesthetic points of view. C. Cloutier-Wojciechowska.	
FRE271Y	LANGUAGE PRACTICE	3S,1P
	A course designed to further improve the student's competence in written and oral French. Staff. PREREQUISITE: FRE171Y. Not open to native speakers of French.	
FRE272Y	THE STRUCTURE OF MODERN FRENCH	2L
	A description of modern French: a study of the phonological, morphological and syntactical systems of the language. A.L. Stein. M.P. Ducretet.	

FRE273Y

GENERAL HISTORY OF THE FRENCH LANGUAGE

1L,1T

A study of the changes by which the Latin spoke in northern Gaul became today's French. Phonetic, morphological, syntactic, and semantic evolution; regional, dialectal, and social variations, including the question of French in Canada; attitudes of men of letters (writers, grammarians, scholars); political and social history. A.L. Stein.

300-SERIES COURSES

NOTE: General prerequisite (except for FRE371Y) is at least three French courses (other than FRE101Y or FRE121Y).

FRE316Y

MEDIEVAL FRENCH LANGUAGE AND LITERATURE

1L,1T

(Not offered 1976-77)

An introduction to representative literary texts of the Middle Ages in the original from the major genres, with a study of the principal features of Old French phonology, morphology and syntax. J. Rault.

FRE332Y

THE LITERATURE OF QUEBEC FROM 1960 TO THE PRESENT

1L,1T

A study of selected novels, drama and poetry. The texts will be studied from the historical, sociological and aesthetic points of view. C. Cloutier-Wojciechowska.

FRE352Y

DRAMA FROM 1600 TO 1800

1L,1T

This course will examine the classical tragedies and comedies of the seventeenth century and the new dramatic forms and theories of the eighteenth century. Discussion of representative works from both centuries will provide an introduction to the techniques of dramatic criticism. D.A. Trott.

FRE354Y

DRAMA FROM 1800 TO 1950

1L,1T

(Not offered 1976-77)

A study of major plays stressing the evolution from the Romantic drama towards a more stylized, poetic and experimental form. This course provides a critical approach to the theatre. J. Rault.

FRE364Y

PROSE FICTION FROM 1800 TO 1900

1L,1T

(Not offered 1976-77)

A study, through the close analysis of specific texts, of the ways in which such major writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such varied themes as ambition, alienation and class struggle. H. H. Weinberg.

FRE366Y

PROSE FICTION FROM 1900 TO 1950

1L,1T

A study of the ways in which twentieth-century writers have refined traditional forms of the novel, experimented and innovated, while exploring the diverse spiritual, intellectual and psychological conflicts of the first half of this century. H.H. Weinberg.

FRE371Y

LANGUAGE PRACTICE

3S,1P

Further work in written and spoken French, with emphasis placed on both literary and informal usage. Staff. PREREQUISITE: FRE271Y.

FRE374Y	INTRODUCTION TO THE STYLISTICS OF FRENCH (Not offered 1976-77)	1L,1T
	A study of the expressive resources of the French language and an introduction to stylistic analysis as a method of explications de textes. H.H. Weinberg.	
FRE390Y/ 391F/S/H	INDEPENDENT STUDY	
	Individual study with a member of staff on a topic of common interest including readings, discussions and papers. Staff.	
	400-SERIES COURSES	
NOTE:	General prerequisite (except for FRE471Y) is at least five French courses (other than FRE101Y or FRE121Y).	
FRE418Y	FRENCH LITERATURE OF THE 16th CENTURY	1L,1T
	The literature of the Renaissance, with a detailed study of the major prose writers Rabelais and Montaigne and such poets as Marot, Ronsard, Du Bellay and D'Aubigne. J. Rault.	
FRE424Y	CONTEMPORARY FRENCH LITERATURE (Not offered 1976-77)	1L,1T
	A study of the novel and theatre since 1950 with special reference to the nouveau roman and the anti-theatre. This course will examine innovative approaches to the problems of narration and to concepts of time, space and character. Staff.	
FRE471Y	ADVANCED FRENCH	2S
	Concentration on written and oral expression at the advanced level. Emphasis on the writing of compositions, text analyses and oral precision. M.P. Ducretet. PREREQUISITE: FRE371Y.	

GERMAN

Faculty Advisor: Professor C. Saas

For the past two hundred years Germany, Austria, and German-speaking Switzerland have played increasingly important roles in European life, both as leaders in commerce and industry and as the homelands of important musicians, philosophers, scientists, psychologists, and religious and political thinkers. Their scholars are unrivalled in such fields as Biblical Studies, Medieval Studies, Philosophy, Archaeology, Art and Music History, Physics, and Chemistry.

German writers are equally distinguished. Beginning with a vigorous medieval literature and continuing through Lessing, Goethe, and Heine to Kafka, Thomas Mann, and Brecht, German literature has treated the widest range of human problems, philosophical and psychological, moral and religious, social and economic. University courses in German offer a thorough study of the more important authors from the Middle Ages to modern times.

In each year the Department offers a parallel study of the language including phonetics and laboratory work, oral expression, translation, essay writing, and the history of the language.

Although the Department prefers that students come to the university with Grade XIII German, it recognizes that not all schools offer this course and it has therefore undertaken an Introductory Course in German that will prepare students with no previous knowledge of the language to enter the regular stream of study. Moreover, for departments or Faculties that require a student to learn to read scholarly German provision is made for appropriate instruction for beginners and for guidance in reading in specialized fields for those who already have some knowledge of the language.

To consolidate language learning and improve oral fluency the Department co-operates with the German government in sponsoring flights to Germany and summer work for a limited number of undergraduates.

German may be profitably studied in combination with other languages and literatures, with Linguistics, Philosophy, or History. It is offered as an option in such programmes for specialists as English, Music, and Fine Arts, and forms itself a part of programmes that specialize in languages and linguistics.

The successful completion of a four-year programme, including seven approved courses in German, entitles a student to do graduate work in the Department. A knowledge of German is also a valuable asset in many other fields, including foreign service. Students who desire information regarding German studies are advised to confer with the Faculty Advisor listed above.

Specialist Programme: 9 courses are required

First Year: Two of GER110Y, 120Y, 130Y, 200Y and one of GER120Y, 130Y.

Second Year: Two of GER210Y, 221Y, 230Y.

Third and Fourth Years: GER326F and two full courses from GER321Y, 323Y(G), 325Y, 327S, 420Y, 421Y (G), 422Y(G), ~~425Y~~, 428S(G) and two full courses from GER310Y, 412F(G), 413S(G), 415F(G), 416S(G) and at least one additional half-course in GER.

Students must pass a university oral examination which will normally be taken in third year. A student must obtain an overall average of at least 70% in any nine courses counting toward specialization, and not less than 60% in any one of these nine courses.

Minor Programme: 7 courses in a 20-course programme are required.

GER326F; three additional GER courses with a literature component; three courses with a language component, of which two must be from GER110Y, 210Y, 310Y, 412F(G), 413S(G); at least one additional half-course in GER. At least 4 of the seven required courses must be at 300- or 400-level. Students are required to pass a University oral examination, which will normally be taken during third year.

No more than two courses from GER110Y, 120Y, 130Y may be counted in the programme. GER130Y and 230Y may be counted as either literature or language courses in the programme, but not as both.

A student must obtain an overall average of at least 70% in the seven courses and not less than 60% in any one of these courses.

It is highly recommended that students who wish to specialize or co-specialize in German also take GLL190Y and ENG140Y in Second year.

GER100Y INTRODUCTORY GERMAN

4L, 1P

An intensive language course for students with no previous knowledge of German. Practice in comprehension, speaking, reading, and writing. See also GER101S, 105Y, 110Y, 205Y. J. Biebert. EXCLUSION: Grade XIII GER, GER101S, 105Y.

GER101S	INTRODUCTORY GERMAN: CONTINUATION	4L,1T,1P
An intensive language course for students who have studied some German, but who have not yet attained Grade XIII level. Practice in comprehension, speaking, reading, and writing. This course is the spring term of GER100Y. See also GER100Y,105Y,205Y,110Y. J. Bielert. EXCLUSION: Grade XIII GER, GER100Y,105Y.		
GER105Y	READING GERMAN I	3L
Training in reading German for students with little or no previous knowledge of German and for whom this work is recommended or required by other departments or faculties. The first course in the sequence GER105Y-GER205Y. The Department reserves the right to place students in the appropriate course in this series. EXCLUSION: Grade XIII GER, GER100Y,101S.		
GER110Y	LANGUAGE PRACTICE I	2L,2P
An intensive course in written and spoken German. Students taking this course and intending to continue in German must take a First Year Literature course as well. J. Bielert. PREREQUISITE: Grade XIII GER/GER100Y/101S. EXCLUSION: GER200Y.		
GER120Y	MODERN GERMAN LITERATURE	2L,1T
Selected works of modern German literature, with emphasis on the 20th century. Ch. Saas. PREREQUISITE: Grade XIII GER/GER100Y/101S.		
GER130Y	GERMAN LITERATURE OF THE 20TH CENTURY: LANGUAGE PRACTICE	2L,2P
Selected works of 20th century literature. Practice in active language learning. There is less literature in this course than in GER120Y in order to accommodate the language component. EXCLUSION: GER200Y. PREREQUISITE: Grade XIII GER/GER100Y/101S.		
GER200Y	INTERMEDIATE GERMAN	3L,2P
An intensive continuation course for GER100Y, (101S) consisting of practice in comprehension, speaking, reading, and writing, plus the study of selected literary works. EXCLUSION: GER110Y,130Y. PREREQUISITE: Grade XIII GER/GER100Y/101S.		
GER205Y	READING GERMAN II	3S
The second course in the sequence GER105Y-GER205Y. An attempt is made to meet the needs of individual students. The Department reserves the right to place students in the appropriate course in this series. PREREQUISITE: Grade XIII GER,GER105Y/100Y/101S.		
GER210Y	LANGUAGE PRACTICE II	3S,1P
An intensive course in written and spoken German at the intermediate level. Students taking this course and intending to specialize in German must take a Second Year Literature course as well. PREREQUISITE: GER120Y/130Y/200Y.		
GER221Y	GERMAN LITERATURE OF THE NINETEENTH CENTURY (Not to be given in 1976-77)	2L,1T
A study of a number of chosen works to represent major literary trends such as Romanticism, Realism and Naturalism. PREREQUISITE: GER120Y/130Y/ 200Y.		

GER230Y

NINETEENTH CENTURY PROSE AND POETRY

2L,2P

A study of important works by authors such as Eichendorff, Kleist, Heine, Stifter, Fontane, Storm, and Keller. Language work of the first year is continued. Two hours per week are devoted to literature, two hours to language practice.
PREREQUISITE: GER120Y/130Y/200Y.

GER271Y

GERMAN CIVILIZATION

2L,1T

(I)

A comprehensive study of German culture through the ages. Special consideration will be given to art history, music, and philosophy within their historical context. A description and analysis of present-day Germany will be included.

No knowledge of German is required. This course does not count toward specialization or co-specialization in German. Available to First-Year students by permission of the instructor.

GER272Y

FILM AND LITERATURE OF THE WEIMAR REPUBLIC

3L

A study of the "golden age" of German cinema, and parallel developments in the literature of the period, including the work of Fritz Lang, Karl Mayer, and Franz Kafka. No knowledge of German is required. This course does not count toward specialization as co-specialization in German. P. Harris.

GER310Y

LANGUAGE PRACTICE III

3S

A full course in intensive language training. Available in either third or fourth Year. PREREQUISITE: GER221Y, GER230Y.

GER325Y

ROMANTICISM

2L,1T

A study of German Romantic literature, including works by Novalis, Brentano, Kleist, Eichendorff, and Hölderlin, as well as basic theoretical texts. Ch. Saas.

GER326F

INTRODUCTION TO MIDDLE HIGH GERMAN
(Not offered 1976-77)

2L,1T

An introduction to the Middle High German language, literature and civilization through the study of such representative authors as Hartmann von Aue and Walther von der Vogelweide. This course is mandatory for German specialists and co-specialists. This course and GER327S are required for students intending to take graduate study in German at the University of Toronto. R.W. Leckie.

GER327S

MEDIAEVAL GERMAN LITERATURE
(Not offered 1976-77)

2L,1T

Reading and literary analysis of works such as Gottfried's Tristan, the Nibelungenlied, and Middle High German poetry. R.W. Leckie. PREREQUISITE: GER326F.

GER350Y

THE THEATRE OF BERTOLT BRECHT

2L,1T

(I)

This course will offer - in English translation - a close reading of selected plays by Brecht, and an investigation of his dramatic theories and stage techniques. Credit for specialization or co-specialization in German may be given upon consultation with the instructor, and upon reading the works in German. Available to first and second year students by permission of the instructor. F. Seliger.

GER420Y	PROSE AND POETRY: 1885-1945 (Not offered 1976-77) A study of modern German authors such as Nietzsche, George, Hofmannsthal, Thomas Mann, Rilke, Hesse, Kafka, Stadler, Heym, Trakl. Ch. Saas.	2L, 1T
GER422Y	CONTEMPORARY GERMAN LITERATURE: 1945 TO THE PRESENT A study of major authors since the Second World War, including Böll, Celan, Dürrenmatt, Frisch and Grass.	2L, 1T
GER425Y	CLASSICISM (Not offered 1976-77) Works to be studied include Faust I and II, Schiller's later dramas and Hölderlin's poetry.	2L, 1T
GER435Y	HESSE, MANN, KAFKA (Not offered 1976-77) Selected works of the three writers will be read in translation. Trends and experiments in modern narrative art will be analysed. The readings will include <u>Siddharta</u> , <u>Steppenwolf</u> , <u>Death in Venice</u> , <u>The Metamorphosis</u> , and <u>The Trial</u> . Students desiring specialization for this course will read the material in the original. Ch. Saas.	2L, 1T

GEOGRAPHY

Faculty Advisors: Professors P.B. Duckworth (Environmental Studies), G.H.K. Gad (Urban Studies), T.F. McIlwraith (Canadian Studies)

Geography deals with the surface of the earth and with the plants, animals, and people that dwell upon it. Its basic objective is to describe and explain the reciprocal relations of man and his environment. Geography thus uses principles and methods common to the physical, social, and life sciences.

It is recognized that many students may come to Erindale with little knowledge of Geography, while others will enter with a lively curiosity already sharpened and focused by an excellent secondary school experience. A number of Geography courses are freely open to all students but for those who intend to concentrate in Geography three integrated programmes are offered, including Environmental Studies, Canadian Studies, and Urban Studies. A minor in Geography consists of any six full-course equivalents (six GGR credits) in the discipline.

Intending specialists in Geography must obtain standing in at least nine GGR courses (i.e., nine full-course equivalents), including the following core courses, GGR202F, GGR212S, GGR271Y, GGR301F, GGR381H and GGR491Y. Specializing students are advised to elect at least two GGR courses in each term or to follow one of the suggested sequences outlined below. Members of the staff in Geography will advise students concerning specialization and the courses which are most appropriate to their specific interests. A student who has met all of the qualifications for specialization in Geography will have his transcript so stamped.

The following courses in Geography may be included in a B.Sc. programme: GGR202F, 212S, 214S, 219F, 271Y, 301F, 303F, 304F, 315Y, 319S, 320Y, 372Y, 373Y, 374F, 375Y, 376S, 377H, 381H, and 491Y.

Suggested Streams in Geography:

The programme in Arts and Science offers a great number of courses for student selection. Faced with such a variety, many students have difficulty in choosing an appropriate sequence. To assist, the following sample programmes and options are suggested for consideration. Individual programmes to suit particular needs are, of course, always possible, and may be planned in consultation with the staff in Geography.

General Studies:

Students interested in a broadly-based arts training with specialization in Geography should take the four "core" course equivalents cited above, plus at least five other GGR courses. Included among these might well be GGR214S, GGR219F, GGR233Y, GGR241Y, GGR253Y, GGR315Y, GGR351Y, GGR361Y, and GGR363Y. These courses offer the widest range of options in upper years and all tie into course offerings in many other disciplines.

Environmental Studies:

Environmental studies is a science programme which offers a background in physical geography with applications to environmental problems. Course offerings include studies in climatology, geomorphology and hydrology, which tie in with other sciences such as biology, geology, and meteorology. These subjects cannot be fully appreciated without an introductory background in mathematics and the pure sciences. Students who wish to specialize in environmental studies are advised to consult with faculty members for guidance in their choice of courses. A suggested programme of study follows.

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| Year I | GGR173Y or GGR175Y, MAT130Y or MAT135Y (or MAT105F and MAT115S), plus BIO100Y or PHY110Y or CHM118Y and two further options. |
| Year II | GGR202F, GGR212S, GGR219S, GGR219F, GGR214S, GGR271Y, plus one of GGR233Y, GGR275Y, BIO230F, BIO231S, PHY254Y, CHM215Y or ECO260S and one option which may be a GGR course. |
| Year III | GGR301F, GGR381H plus 4 full course equivalents. |
| Year IV | GGR491Y plus 4 full course equivalents from various disciplines that will support the research topic to be chosen for GGR491Y. |

In Year III and Year IV the following should be seriously considered as possible options: GGR241Y, GGR304F, GGR319S, GGR320Y, GGR373Y, GGR374F, GGR376S, GGR377H, BIO332Y, BIO430Y, BIO433S, BIO435F, CSC108F, PHY211Y, CHM270F.

Canadian Studies:

The programme in Canadian studies at Erindale is diffused widely throughout the College curriculum, with courses in Anthropology, Commerce, Economics, English, French, Geography, History, Interdisciplinary Studies, Philosophy, Political Science, and Sociology all being appropriate. As the 1976-77 calendar was going to press, Specialist and Minor Programmes in Canadian Studies were formally introduced to the Erindale curriculum. Details of the programmes may be obtained from the Registrar's office or the geography faculty advisor. However, students wishing to specialize in Geography with an emphasis on Canadian studies may find the following sequence of courses a useful guide.

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|------------------|--|
| Year I | GGR131Y or GGR173Y, GGR241Y, plus three options such as ANT217Y, ECO100Y, HIS262Y, POL100Y or SOC101Y |
| Years II and III | GGR202F, GGR212S, GGR233Y, GGR250Y, GGR253Y, GGR271Y, GGR301F, GGR315Y, GGR331Y, GGR333S, GGR351Y, GGR353S, GGR361Y, GGR381H, plus 5 options which might be other GGR courses, or ECO221Y, ENG152Y, HIS331Y, HIS367Y, HIS368Y, INI202Y, POL323Y, SOC303Y, or others. |
| Year IV | GGR491Y, plus 4 options |

Urban Studies

There are three principal ways in which interests in geography and urban topics may be combined:

1. in the form of a Geography Specialist programme with emphasis on urban geography.
2. in the form of a combined Geography Specialist/Urban Studies Specialist programme.
3. or by combining a Geography Specialist with an Urban Studies Minor programme.

Because of the wide variety of both course and programme requirements in urban geography and urban studies it is not practical to outline possible course combinations here. Students should refer to the Urban Studies Programmes Guide in the Erindale Geography Handbook and consult with faculty advisors in selecting courses. Certification as "Urban Studies Specialist" or "Urban Studies Minor" may be arranged through the Registrar, Innis College.

<u>GGR131Y</u>	INTRODUCTION TO MAN'S USE OF THE ENVIRONMENT	2L,1T
	Considers variations in economic and social organization in pre-industrial and technologically-advanced societies: also, man's role in landscape change, as expressed through the location of agriculture, industry, and cities. T.F. McIlwraith, R.R. White. EXCLUSION: GGR171E(1973-74).	
<u>GGR173Y</u>	MAN AND ENVIRONMENT (Same as BIO130Y) (Not offered 1976-77)	2L,2T
	Past and present man-environment relationships are examined; principles of ecology, environmental ethics and aesthetics are outlined; crossroads alternatives for man are discussed. Stability of the climate-soil-water biota complex is studied in relation to economic exploitation in North America and certain other parts of the world. Value systems and the restoration of degraded environments are also considered. J. Svoboda. EXCLUSION: BIO130Y.	
<u>GGR175Y</u>	INTRODUCTION TO PHYSICAL GEOGRAPHY	2L,2P
	Introduction to world climates, vegetation, hydrology, soils and the physical landscape. Interactions between different sectors of the physical environment are explored and the role of man in the physical geographic system is discussed. D.S. Munro.	
<u>GGR202F</u>	STATISTICS (Same as STA202F and PSY200F)	2L,2T
	Acquaints beginning students in Geography with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about population on the basis of samples. EXCLUSIONS: Any concurrent or previous statistics course. COREQUISITE: GGR271Y.	
<u>GGR212S</u>	APPLICATIONS OF STATISTICS (Same as STA212S)	2L,1T
	A continuation of GGR202F, including analysis of variance and linear regression. EXCLUSIONS: STA212S/222Y(G)/232Y(G)/242Y/252Y(G), BIO361S, PSY201S, ECO220Y. PREREQUISITE: GGR202F.	

GGR214S

CLIMATOLOGY

2L, 2P

Meteorological basis of climate; general circulation of the atmosphere and influence on climatic change; interaction between man and climate. D.S. Munro. EXCLUSION: GGR213E(1975-76). PREREQUISITE: one GGR course or P.I.

GGR219F

PLEISTOCENE GEOMORPHOLOGY

2L, 1P

An introduction to theories of glaciation and the evolution of glacial landforms with special reference to Southern Ontario. Topics included are: climatic change during the Pleistocene, stratigraphy of glacial deposits including data methods, data collection and analysis, economic importance of sand and gravel. Field trips. PREREQUISITE: one 100-series GGR/P.I.

GGR233Y

NATURAL RESOURCE AND ENVIRONMENTAL MANAGEMENT

2L, 1T

Analysis of factors in the management and decision-making process which shape the environment. Topics include environmental behaviour, impact of technology on society and nature, and evaluation of alternatives. The course is future-oriented, concerned with public policy, and adopts a world-view from a Canadian standpoint. A.P. Grima. PREREQUISITE: GGR173Y/ BIO130Y recommended.

GGR241Y

URBAN CANADA

2L, 1T

(I)

An introduction to urban studies through an examination of the development and character of the urban fabric and urban life in Canada.

GGR250Y

GEOGRAPHICAL MODELS OF MAN

2L, 1T

Man's behaviour and location in space have been modelled in a variety of different ways. This course examines these various models of the man-environment interface, largely within a theoretical context. Derivative concepts from economic, sociological and psychological theory are the main sources for such models. H.F. Andrews.

GGR253Y

CULTURAL GEOGRAPHY

2L, 1T

(Not offered 1976-77)

A study of social change and the resultant imprint on both urban and rural landscapes in pre-industrial and modern societies.

GGR255S

PERSPECTIVES ON CURRENT POPULATION ISSUES

2L, 1T

Issues in current discussions on the "population problem" are examined in light of historical writings. Optimum population size and political strength and the tradition of pessimism in population theory. C. Houston.

GGR271Y

METHODS OF ENVIRONMENTAL ANALYSIS

2L, 2P

Field and laboratory methods and instruments employed by geography and related sciences in the study of environmental problems, both human and natural. Projects in cartography, air photo interpretation, physical geography, urban and historical data collection, and report preparation. C. Houston.

COREQUISITE: GGR202F.

GGR275Y

INTRODUCTION TO HYDROLOGY

2L, 3P

(Formerly GGR375E)

The objectives of this course are to provide the student with a basic grounding in the theoretical and practical aspects of surface and groundwater hydrology, together with the consideration of problems in water resource development. Topics discussed include: measurement of streamflow, hydrograph analysis, physics of groundwater flow, snowmelt-runoff relationships, erosion and sedimentation, urban hydrology and water law. P. Duckworth EXCLUSION: GGR375E(1975-76). PREREQUISITE: GGR173Y/BIO130Y or GGR213Y, or GGR219S, GGR175Y(in 1977-78).

GGR301F

FIELD STUDIES

3P

Direct out-of-doors investigation of physical and socio-economic phenomena; field observations and samples collected during a week-long field camp in September are analysed and reports submitted. Cost is about seventy dollars per student, which covers transportation and accommodation. Staff. PREREQUISITE: GGR271Y or P.I.

GGR303F

HYDROCLIMATOLOGY

2L, 1/2T

(Not offered 1976-77)

The earth's water balance analysed from the point of view of the fundamental physical, climatological and environmental factors; atmospheric turbulence and vapour transport; soil water relationships and snowmelt; evaporation and transpiration; water budgeting procedures; relations with general and agricultural hydrology. G. Szeicz. PREREQUISITE: GGR213Y.

GGR304F

BIOCLIMATOLOGY

2L, 1/2T

Influence of climate on plants, animals and man, studied quantitatively. The energy, moisture and carbon balance over various surfaces will be related to the biotic part of natural and cultivated ecosystems. Principles of physiological climatology; wind-chill and comfort indices. Heat and moisture transfer from plants and animals; insulation of animals and clothing requirements of man. PREREQUISITE: GGR213Y; GGR303F recommended.

GGR315Y

RESOURCE DEVELOPMENT PROBLEMS

2L, 2P

A series of specific studies in the problem of resource utilization under various environmental conditions, with emphasis upon Canadian problems. D. F. Putnam. PREREQUISITE: Any two GGR courses or P.I.

GGR319S

BIOGEOGRAPHY

2L, 1T

(Not offered 1976-77)

This course will review the relationship between plants, animals and their changing environments, and the role taken by man as an agent of vegetation change. PREREQUISITE: Any two GGR courses and one BIO course, or P.I.

GGR320Y

SEDIMENTOLOGY

2L, 2P

A review of sedimentation processes operating in fluvial, lacustrine and marine environments. Topics discussed include: mechanics of sediment transport, monitoring of sedimentation processes, statistical analysis of sediment data, determination of chronology in sedimentary deposits. P. Duckworth. PREREQUISITE: GGR219F; GGR375Y recommended.

GGR331Y

AGRICULTURE

2L, 1P

(Not offered 1976-77)

Background discussions of agricultural origins, agricultural ecology and the economic development of agricultural patterns. The concept of agricultural region and distribution of agricultural types. D. F. Putnam. PREREQUISITE: One GGR course/P.I.

GGR332F

DEVELOPMENT AND ENVIRONMENT

2L, 1/2T

The problems of poverty and hunger in low income countries have become even more complex with the emergent concerns about resource "scarcities" and ecological damage. The aim of the course is to bring together topics in these three interacting concerns. L. Grima. PREREQUISITE: GGR233Y recommended.

GGR333S

TRANSPORTATION GEOGRAPHY

2L, 1T

Principles of transport and land use; characteristics of transportation networks and movements; transportation and economic development, past and present: geographical aspects of contemporary transportation problems. R.R. White. PREREQUISITE: GGR271Y or P.I.

GGR334S

WATER RESOURCES MANAGEMENT

2L, 1/2T

In this course particular emphasis is put on Canadian problems in water resource management; a selection of topics related to policy will be covered e.g. forecasting the demand for water, inter-basin and inter-national water transfers, industrial and urban water supply and wastewater management, water/drought as natural hazards, the Great Lakes, water supply in developing countries. L. Grima. PREREQUISITE: GGR233Y recommended.

GGR340Y

CONCEPTS, METHODS AND VALUES IN URBAN STUDIES

1L, 3P

(Same as SOC340Y) (Not offered 1976-77)

Designed for students concentrating in urban studies irrespective of major disciplinary area. It provides a survey of a variety of types of urban study from the social science perspective. The major emphasis is on linkages between the ways in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. G. Gad, H. Breslauer, H. Andrews. PREREQUISITE: SOC205Y/ GGR241Y/ P.I.; and SOC201Y/(GGR271Y, GGR 202F)/P.I.

GGR346F

THE URBAN PLANNING PROCESS IN CANADA

2L, 2P

The course is designed to lead to an understanding of the planning process and to an examination of the possible and actual impact of urban planning. Major topics will include the premises of planning and the history of urban planning; legislation providing for controls and the actual use of those controls; methods and techniques of urban planning and a review of achievements. G. Gad. PREREQUISITE: GGR241Y/SOC205Y/P.I.

GGR349Y

WORKSHOP IN ADVANCED URBAN GEOGRAPHY

3P

A survey of alternative methods of data collection and analysis in urban studies. Application of methods to a limited range of different topics which are to be selected according to current interests of students and staff. Apart from lectures, discussion groups and simulation games the course involves a small field trip (cost: about \$70) to another large Canadian City. G. Gad, H. Andrews. PREREQUISITE: GGR271Y or GGR241Y.

Social and economic development and landscape change north of Chesapeake Bay and west through the Great Lakes area to the edge of the grasslands, from the time of first European contact. Evaluation of the land by successive generations of observers and users is of central interest in this course. T.F. McIlwraith. PREREQUISITE: Any two full GGR courses or P.I. A Canadian or American history course would be desirable.

GGR353S

CURRENT CANADIAN PROBLEMS IN THEIR HISTORICAL SETTING 2L, 1T

The historical roots of topical Canadian questions will be examined in this course. Students will investigate the geographical elements of such subjects as resource exploitation, farm consolidation, regional disparity, ethnicity, rural-urban inter-relations, international commerce. T.F. McIlwraith. PREREQUISITE: Two GGR courses including GGR241Y/GGR 351Y/GGR361Y.

GGR361Y

CANADIAN CONTEMPORARY REGIONAL STUDIES 2L, 1T
(Not offered 1976-77)

A study of the spatial relations and distribution patterns of the physical features, resources, population, and economic development. D. F. Putnam PREREQUISITE: An introductory GGR course

GGR363Y

GEOGRAPHY OF THE SOVIET UNION

2L, 1T

A survey of the geography of the Soviet Union, through an examination of topics ranging from the territorial expansion of the Russian state to contemporary issues in planning and development. Comparison of Soviet conditions with more familiar North American situations. C. Houston. PREREQUISITE: Two GGR courses/P.I.

GGR365Y

PROBLEMS IN CONTEMPORARY REGIONAL DESIGN 2L, 2T
(Not offered in 1976-77)

The application of geographical models to problems in contemporary regional design. Attention will be focussed on regional aspects of national planning in Canada and the tropics. Other examples will be taken from the United States and Europe. R. R. White. PREREQUISITE: GGR202F/P.I.

GGR372Y

APPLIED CLIMATOLOGY

2L, 1T

Fundamentals of energy balance climatology including principles of radiation exchange and turbulent transfer, with a view to current progress in this field. Attention will be given to the application of climatology to current environmental problems. D.S. Munro. PREREQUISITE: PHY254Y/GGR213Y/P.I.

GGR373Y

REMOTE SENSING OF ENVIRONMENT

2L, 2P

Principles, instruments, and methods of remote data collection and analysis. Cameras, infrared scanners, microwave radiometers, and radar as used on aircraft and earth satellites. Image analysis and enhancement. Applications to social and physical geography, geology, forestry, agriculture, oceanography, hydrology, and meteorology. PREREQUISITE: PHY110Y recommended.

GGR374F

WATER QUALITY

2L, 1P

An introduction to the physical and chemical properties of water with emphasis on their importance to industrial and domestic supplies. Topics included are: measurement and analysis of dissolved and suspended constituents, phosphate and nitrate contamination of surface and ground-water supplies, treatment of sewage, legal considerations of water contamination, spatial variability of water quality with emphasis on Southern Ontario. P. Duckworth. PREREQUISITE: CHM150Y, GGR375Y, P.I.

GGR376S

GROUNDWATER HYDROLOGY

2L, 2P

Groundwater movement; groundwater prospecting; well hydraulics; groundwater management; artificial recharge of aquifers. P. Duckworth. PREREQUISITE: GGR202F and GGR212S (or equivalent); MAT135Y; GGR375Y.

GGR377H

COMPUTER METHODS IN PHYSICAL GEOGRAPHY

1L, 1P

Application of advanced statistical and computational methods for solving problems and studying systems in physical geography. Topics discussed include: multiple linear regression, trend surface analysis, time series, optimization, sedimentary basin models, and hydrologic simulation models. PREREQUISITE: GGR202F, 212S; CSC108F, 118S recommended, P.I.

GGR381H

RESEARCH DESIGN

2P

Designed to give students experience in the definition of and proper approach to a research study. Sampling schemes, analytical procedures, and thesis or report formats are also covered. Students prepare a paper on the research problem which they would intend to pursue in fourth year. In addition to the statement of purpose, the paper embodies a thorough review of pertinent literature and where appropriate, data from interviews with experts in the field, personal observations and/or preliminary sample analyses. G. Gad, S. Munro. PREREQUISITE: GGR271Y/P.I.

GGR441S

ADVANCED TOPICS IN URBAN STUDIES

2P

An advanced seminar dealing with selected topics in urban studies, to be selected according to staff and student interests. Possible topics include images of cities and the spirit of place, the city in history, social theory and the city, and similar topics. G. Gad. EXCLUSION: Open to fourth-year students only PREREQUISITE: P.I.

GGR491Y

B.A./B.Sc. THESIS

A research project, each student working on a topic of his choice under the individual guidance of a member of the staff. Copies of the thesis are to be submitted by March 1, and the student will present it before an examining committee. P. Duckworth, C. Houston and Staff. PREREQUISITE: GGR381H (grade of 75% required) plus six GGR courses. Open to Fourth year students only.

GREEK AND LATIN LITERATURE IN TRANSLATION
(See Classics)

GLL190Y

GREEK AND ROMAN RELIGION AND MYTHOLOGY
(Not offered 1976-77)

2L,1T

The Myths of Greece and Rome will be studied in connection with the religion of the ancient world. Attention will be focussed on the origin and development of the most important myths and their significance as inspiration for art and literature. In addition, the course will include discussion of different schools of interpretation of myth, and comparison of Greek and Roman myths to those of other cultures, particular of the Near East and Northern Europe. C.I. Rubincam. EXCLUSION: GLL191F/S(G), 205(G).

GLL200Y

GREEK DRAMA IN TRANSLATION

2T

(I)

A study of Tragedy and Comedy in ancient Greece. Reading and discussion of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes. R.L. Beck.

GLL202S

THE ANCIENT NOVEL

2T

(I)

The deveiopment in Greece and Rome of an imaginative prose literature, which anticipates the modern European novel. Greek romances present young love and sensational adventures in an idealized setting. Petronius' Satyricon shows the culture of Nero's Italy through the eyes of a homosexual trio, and Apuleius' Golden Ass recounts the experiences of a young man in Greece transformed into an ass. The True History of Lucian, a parody of travellers' tales, is an amusing forerunner of science fiction. R.L. Beck.

GLL204F

ROMAN SATIRE

2T

(I)

(Not offered 1976-77) A reading of selected Roman satires, with emphasis on Horace and Juvenal. Verse satire is the most personal form of Roman Literature and offers the modern reader a vivid and witty picture of people and society of the times. Of further interest is the influence of Horace and Juvenal on the formation of modern English and European satire. R.L. Beck.

GREEK AND ROMAN HISTORY
(See Classics)

GRH100Y

GREEK AND ROMAN CIVILIZATION

2L,1T

Its political, economic and cultural evolution, beginning in an age of independent city-states, reaching rich maturity in the Hellenistic age of Great Powers, and culminating in the multiracial and multicultural Roman Empire. Its place in world history. T.G. Elliott. EXCLUSION: GRH200Y/202Y/300Y if taken in the same year of study.

GRH200Y

GREEK HISTORY TO THE DEATH OF ALEXANDER

2L

(I)

Political, economic and intellectual progress and achievement in the Greek classical age. T.G. Elliott. EXCLUSION: GRH100 if taken in the same year of study. EXCLUSION: GRH100Y.

GRH1202Y

HELLENISTIC AND ROMAN REPUBLICAN HISTORY

2L,1T

(I)

(Not offered 1976-77)
The history of the kingdoms formed out of the empire of Alexander the Great, and the history of the Roman republic from its beginnings until 31 B.C. when the Greek east is taken over by the Romans and the Romans are taken over by the Caesars. T.G. Elliott. EXCLUSION: GRH100Y if taken in the same year.

GRH212Y

CAESAR AND AUGUSTUS
(Same as HIS486Y)

2S

A study of politics and society in ancient Rome during the period of the breakdown of republican government and the transition to the autocratic system of the Principate. R.L. Beck.

GRH216Y

ALEXANDER THE GREAT AND THE HELLENISTIC AGE
(Not offered 1976-77)

2S

(I)

The course will examine the career and achievements of Alexander, and the shape of the world that resulted from his conquests. C.I. Rubincam.

GRH218Y

RELIGION IN THE ROMAN EMPIRE

2L,1T

(I)

A study of the different religious systems and beliefs competing for men's allegiance in the Roman world of the first four centuries A.D. Classical paganism and its cults; emperor worship; the philosophical alternatives to religion; astrology; the mystery religions and Mithraism; the rise of Christianity and the development of its teachings and institutions within the social context of their times; official and popular reactions to Christianity - conversion, opposition, persecution, and the eventual establishment of Christianity as the Empire's sole religion. R.L. Beck.

GRH300Y

THE ROMAN EMPIRE
(Not offered 1976-77)

2L,1T

(I)

Constitutional, economic, social, military and religious developments in the empire, from Augustus to St. Augustine. T.G. Elliott. EXCLUSION: GRH100Y if taken in the same year.

GRH312Y

STUDIES OF GREEK HISTORY OF THE FIFTH CENTURY
(Not offered 1976-77)

2T

Aspects of public and private life in the city-states of Greece during the fifth century B.C. will be studied through the literature of the time, supplemented by archaeological evidence. C.I. Rubincam. EXCLUSION: HIS485Y in the same year.

HISTORY

Faculty Advisor: Professor W.B. White

History is exclusively neither an art nor a science, but a subtle blend of the two. The historical imagination reaches beyond the limits imposed by scientific method, but it does not enjoy unfettered poetic license. What is not required of art is required of history - to discover what the old universe was like rather than to invent a new one.

We study the past in order to influence, no matter how modestly, the world around us and the world within us. Historical inquiry is always a response to the human need for information, an understanding of the broad patterns of social development. Concentration in history can provide students with the analytical skills and intellectual judgement required in a number of fields. From academic research and teaching to a career in publishing, journalism or the media, the historian's contribution is substantial. Training in history is appropriate preparation for a career in law or in government service as a researcher, archivist or policy analyst.

The history programme at Erindale is designed to give students a comprehensive view of the modern world. Strong core areas in European, Canadian and American History are supplemented by courses in British, Russian, Latin American and Third World History. Introductory courses are normally conducted as a combination of lecture and tutorial; more advanced courses are often offered as seminars, allowing students experience in independent research and in presenting their findings.

Students who wish to specialize in History are required to enrol in the History Office (Room 211, North Building). A Specialist Programme in History is a four-year programme which includes at least nine full-year courses or the equivalent from the offerings of the Department. Courses from other disciplines (normally not more than three) may be substituted for History courses if approved by the Department. Within this general prescription: (a) the nine courses must be chosen from a minimum of three areas; (b) in each of two areas a minimum of two 300- or 400-series courses must be chosen; (c) of the nine courses, at least two must deal exclusively with periods preceding the year 1815. Up to two courses per year may be taken at the St. George Campus.

Joint Specialist Programmes have been worked out between History and the disciplines of Economics, English, Geography and Philosophy; for details, consult the Faculty Advisor. Ordinarily, the History requirement for a joint specialization is similar to that for a minor in History, which requires the following: (a) at least seven courses in History; (b) the seven courses must be chosen from a minimum of two areas; (c) in one area, a minimum of two 300- or 400-series courses must be chosen; (d) at least one course must deal exclusively with a period preceding the year 1815.

<u>HIS100Y</u>	MODERN EUROPE, 1789-1970	2L,1T
Europe from the French Revolution to the 1960's. Political, economic, social and cultural aspects will be covered.		
<u>HIS101Y</u>	THE EMERGENCE OF THE THIRD WORLD	2L,1T
An inquiry into the composition and nature of the economically under-developed regions of the world, especially Latin America, Africa, and East Asia; and an investigation of the historical and contemporary conditions that have given rise to a collectively shared "third world consciousness" among the peoples and nations of these regions.		
<u>HIS204Y</u>	HISTORY OF ITALY	2L,1T
(I)	A general survey of the history of Italy: political, social, economic and cultural. C. LaVigna.	
<u>HIS220Y</u>	THE SHAPE OF MEDIEVAL SOCIETY (Not offered 1976-77)	2L,1T
(I)	An introductory course covering Western Europe (including Britain) from the late Roman period to the fifteenth century. A topical survey of economic, political, religious, and educational ideas and institutions.	

HIS230Y

POLITICS AND SOCIAL CHANGE IN ENGLAND, 1530-1800

2L,1T

(I)

An introduction to the development of government and society in England from the sixteenth to the eighteenth century. Attention will be given to such events as the English Reformation, the Civil War, the Glorious Revolution, the beginnings of industrialization, and the challenge of the American and French Revolutions. W. Hayes.

HIS231Y

HISTORY OF GREAT BRITAIN, 1800-PRESENT

2L,1T

(I)

The major themes of British history from the late eighteenth century: the emergence of industrial society, the fate of aristocracy, religion, cultural and intellectual change; external relations, constitutional development and political history.

HIS240Y

EARLY MODERN EUROPE, 1450-1815

2L,1T

(I)

A study of the major ideas and institutions that have shaped western civilization. Emphasis will be placed upon the cultural, scientific and religious currents of the Renaissance and Reformation, the political issues of the Enlightenment, and the socio-economic forces of changes culminating in the Napoleonic Empire.

HIS250Y

HISTORY OF RUSSIA, 1000-PRESENT

2L,1T

(Not offered 1976-77)

(I)

A thematic approach concentrating on the modern period (post-1700). Students are encouraged to follow their own interests through independent reading and special projects.

HIS262Y

HISTORY OF CANADA, 1500-PRESENT

2L,1T

(I)

An introduction to the social, political and economic development of Canada from the beginning of exploration to the present. Particular attention will be paid to French-English relations, the development of political parties, patterns of economic development and Canada's relations with both Great Britain and the United States. R. Rudin.

HIS271Y

HISTORY OF THE UNITED STATES, 1754-PRESENT

2L,1T

(I)

A survey of significant developments in American history (e.g., the Revolution, the Civil War, industrialization, the effects of the Cold War) and important characteristics of American society (e.g., social mobility, racism, imperialism). Lectures and readings will combine the perspectives of political, social, economic and diplomatic history. R. Pruessen.

HIS290Y

INTRODUCTION TO LATIN AMERICAN HISTORY

2L,1T

(Not offered 1976-77)

(I)

Presentation of the past of Latin America in relation to its present, through investigation of selected themes: colonialism, imperialism and dependence; the succession and interaction of tribal, feudal and capitalist forms of society; racial and cultural mixture; democracy and dictatorship; nationalism, etc.

HIS300S

CANADIAN URBAN HISTORY

2S

The development of Canadian cities from the French regime to the present will be examined. Among the topics to be considered will be the role that cities have played in the economic growth of Canada and the problems created by urban life. R. Rudin. PREREQUISITE: P.I.

HIS313Y	CANADIAN LABOUR AND THE LEFT (Not offered 1976-77)	2S
	A study of the growth of the Canadian labour movement since Confederation and of the related development of Canadian radicalism. Social, economic and regional themes will be incorporated. D.P. Morton. PREREQUISITE: HIS262Y/POL100Y.	
HIS314Y	FRENCH CANADA SINCE THE CONQUEST	2S
	Problems related to the development of the French Canadian community will be discussed in this course. French Canadian nationalism, political behaviour in Quebec, Quebec economic development, and the evolution of French Canadian society both within and outside of Quebec are among the questions to receive particular attention. R. Rudin. PREREQUISITE: HIS262Y and/or P.I.	
<u>HIS321Y</u>	POLITICS AND SOCIETY IN VICTORIAN BRITAIN (Not offered 1976-77)	2S
	This course will describe the evolution from an aristocratic to a democratic political structure in nineteenth century Britain. PREREQUISITE: P.I. (Preference will be given to third and fourth year students).	
<u>HIS322Y</u>	BRITISH HISTORY	2S
	Special Topic. PREREQUISITE: P.I.	
<u>HIS324Y</u>	POLITICS AND SOCIETY IN GERMANY, 1870-1945	2S
	A critical analysis of the interaction of political, social, and ideological forces which shaped the German state - the "German problem", the roots of National Socialism, the causes for the Third Reich, and the nature of totalitarian society. PREREQUISITE: P.I. (Preference will be given to third and fourth year students).	
<u>HIS329Y</u>	THE RUSSIAN REVOLUTION	2S
	(Formerly HIS359) (Not offered 1976-77) The development of revolutionary ideologies, tactics, and organizations from the Decembrist movement (1825) to the consolidation of the Bolshevik Revolution. Concentrates on the writings of individual leaders (Herzen, Bakunin, Lenin) and their different strategies and goals in the struggle against tsarism. R.E. Johnson. PREREQUISITE: P.I. (Preference will be given to third and fourth year students).	
<u>HIS331Y</u>	CANDIAN HISTORY	
	Special Topic. PREREQUISITE: P.I.	
<u>HIS333Y</u>	CANADIAN HISTORY FROM CONTEMPORARY ISSUES (Not offered 1976-77)	2S
	After a close examination of Canadian nationalism during the first term, students will be able to choose areas of special concern for detailed research. D.P. Morton. PREREQUISITE: P.I. (Preference will be given to third and fourth year students).	
<u>HIS336Y</u>	CANADIAN HISTORY	
	Special Topic. PREREQUISITE: P.I.	

HIS337Y

BRITISH HISTORY, 1815-1914

2S

The major themes of British history from the late 18th Century: the emergence of industrial society, the fate of aristocracy, religion, cultural and the intellectual change, foreign relations, constitutional development and political history. M. Dafoe.

HIS343Y

PRE-1815 EUROPE

Special Topic. PREREQUISITE: P.I.

HIS353Y

INTERNATIONAL RELATIONS, 1870-1945

2S

The international relations of the European powers at their zenith and in decline. The interaction of the European powers is studied from the creation of the Second Reich to the origins of the first world war, the Versailles settlement, the inter-war "twenty year crisis" through the second world war. The economic and social framework will be examined as well as political conflicts. M. Dafoe.

HIS355Y

TOTALITARIANISM

2S

The seminar concentrates upon an examination of controversial interpretations of this period by some of Europe's leading authors with a view to understanding better what underlies the triumph of the 20th century totalitarian movements - Fascism, Nazism, and Stalinist Communism. C. LaVigna.

HIS356Y

SOCIAL HISTORY OF RUSSIA FROM THE RISE OF SERFDOM TO THE PRESENT

2S

(Not offered 1976-77)
Emphasizes the condition of the common man as affected by changing political and economic circumstances. Among the topics included are: the serf economy, the state as agent of social change, the causes and consequences of emancipation, industrial growth and modernization before and after 1917, and the achievement and prospects of Soviet society. R.E. Johnson.
PREREQUISITE: P.I.

HIS357Y

THE RENAISSANCE

2L, 1T

A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe. C. LaVigna.

HIS359Y

THE HISTORY OF WOMEN IN CANADA

2S

This course examines the role played by women in shaping Canadian society. A basic aim will be to analyse the attitudes and conditions which have determined the position of women at various stages in Canada's development. The role of women will be viewed from two basic perspectives - the pioneer experience and the industrial-urban experience. S. Van Kirk. EXCLUSION: HIS330S (1974-75).

HIS364Y

CANADA AND WAR, 1867-1967

2S

A topical examination of the Canadian experience of war and military preparedness, including problems of political-military relations, conscription, aid to the civil power, and military sociology. D.P. Morton.

HIS367Y

THE CANADIAN-AMERICAN RELATIONSHIP

2S

Lectures, recitations, and readings during the first term. During the second, students will prepare, present, and comment upon papers dealing with particular subjects in the Canadian-American relationship from 1783 to the present.
PREREQUISITE: P.I. (Preference will be given to third and fourth year students).

HIS372Y

THE UNITED STATES IN THE TWENTIETH CENTURY

1L

A topical approach to the twentieth century designed to familiarize the student with important political, social and economic developments; for example, some topics considered will include the behaviour of the United States in the international arena, changing sexual roles and the dynamics of the family, the growth of economic and political corporatism, the ideology of American individualism, and militarism in postwar society. R. Pruessen.

HIS377Y

TOPICS IN TWENTIETH CENTURY AMERICAN DIPLOMACY

2L, 1T

An examination of United States behaviour on the international scene since the 1890s. Economic, political and ideological factors involved in the growth of the American empire, World War I, World War II and the Cold War will be studied. R. Pruessen.

HIS378Y

ETHNICITY IN AMERICAN HISTORY

2S

The seminar will consider the extent to which the United States has been a "melting pot", including migrations to and settlement patterns in America, concepts of nationality and race, and problems of assimilation and acculturation. Black history and Indian-white relations will also be discussed, although the focus will be on non-Anglo-Saxon immigrants. W.B. White. PREREQUISITE: P.I. (Preference will be given to third and fourth year students).

HIS383Y

SOCIETY AND THOUGHT IN EARLY AMERICA

1L, 1T

A study of the social, cultural and intellectual life and development of the American colonies and the new nation, from the sixteenth century European background through the War of 1812. Major topics will include the nature of pre-industrial society, Puritanism, slavery and the Southern plantation system, the colonial family and the role of women, education, the Enlightenment, the Great Awakening, the American Revolution, and the growth of nationalism. W.B. White.

HIS386Y

AMERICAN SOCIAL HISTORY

1L, 1T

(Not offered 1976-77)
The development and interaction of American institutional and population groups. Major themes will include the changing functions and forms of religion, the family, and education; the frontier social order; class, ethnic, and race relations; and the social consequences of urbanization and industrialization. W.B. White.

HIS388Y

THE UNITED STATES SINCE 1945

2S

An examination of significant political, economic, social and intellectual developments, including Cold War foreign policies, economic and social reforms, McCarthyism, the Civil Rights movement, women's liberation, the "counter-culture," and the Indochina Wars. R. Pruessen. PREREQUISITE: P.I. (preference will be given to third and fourth year students).

HIS389Y

SOCIAL REVOLUTIONS IN LATIN AMERICA

2S

(Not offered 1976-77)

Focuses primarily on the Mexican Revolution 1910-1940 and the Cuban Revolution from 1959 to the present, but will also include some coverage of the historical background of both countries; similar movements in other nations of Latin America may be included if desired. Some theoretical literature on such questions as feudalism, capitalism underdevelopment and revolution will be introduced. D.L. Raby.

HIS391Y

MEXICO: INDEPENDENCE TO REVOLUTION, 1810-1960

2S

(Not offered 1976-77)

A seminar considering the growth of the Mexican nation from the struggle for independence to the "institutional revolution" of today. D.L. Raby. PREREQUISITE: P.I.

HIS393Y

HISTORY OF SPAIN, 1815 TO PRESENT

2S

(Same as SPA393Y)

A study of the events which culminated in the defeat of the Spanish Republic in 1939 and the establishment of the authoritarian regime of General Franco. J.R. Webster. PREREQUISITE: P.I. or SPA394Y.

HIS394Y

HISTORY OF SPAIN, 1469-1815

2S

(Same as SPA394Y) (Not offered 1976-77)

A study of the problems faced in the political unification of Spain, with emphasis on the diverse traditions of its component parts. J.R. Webster.

HIS395Y

BLACK AFRICA IN THE TWENTIETH CENTURY

2S

An examination of major problems in the history of colonial and post-colonial Africa. Among them are the nature of European domination, the extension of the market economy, resultant forms of social and economic change, African resistance, labour activity, religious movements and the origins of modern nationalism. PREREQUISITE: P.I.

HIS401Y

INDEPENDENT READING

An independent study of an area of particular interest to a student or group of students carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year. PREREQUISITE: P.I.

HIS403Y

INDEPENDENT READING

An independent study of an area of particular interest to a student or group of students, carried out under the supervision of a staff member. No student may take more than one Independent Reading course in a single year. PREREQUISITE: P.I.

HIS485Y

THE PROBLEM OF GOVERNMENT IN CLASSICAL GREECE

2S

(Not offered 1976-77)

A study of forms and ideas of socio-political organization in ancient Greece, concentrating on Athens, from Solon, the founder of her democracy, to Pericles, its greatest exponent. C. Rubincam.

HIS486Y

THE ROMAN REVOLUTION
(Same as GRH212Y)

2S

A study of politics and society in ancient Rome during the period of the breakdown of republican government and the transition to the autocratic system of the Principate. R.L. Beck.

INTERDISCIPLINARY STUDIES

Faculty Advisor: Professor D. Morton

"Interdisciplinary Studies" is the name given to a special program of courses, which because of their innovative character, might not readily be accommodated within the programs of the regular academic departments of the College. Subject areas are changeable from year to year and students are advised to consult the Associate Dean of Centre A for current details.

INE202Y EAST EUROPEAN CINEMA

Survey course on the developments in the cinema in Bulgaria, Czechoslovakia, Hungary, Poland and Yugoslavia since World War II.

The course will focus on the sixties and seventies and on the work of such directors as Rangel Veulchanov, Milos Forman, Miklos Jancso, Andrzej Wajda, Dusan Makavejev and others.

Recommended to students with previous experience in film studies. J. Skvorecky.

INE203Y EXPOSITORY WRITING

1L, 2P

(I)

A practical course in the organization and presentation of information and ideas, with emphasis on clarity, accuracy and precision. Separate sections may be offered for students to whom English is a first or a second language.

INI202Y CANADIAN CULTURE AND SOCIETY

1L, 1T, 1P

(I)

An introduction to aspects of Canadian culture and society for students for whom English is a second language. Guest lecturers from disciplines such as Geography, History, Political Science, Economics, Anthropology, Sociology and Architecture explore in more depth those questions raised in the preliminary 6-week orientation period. Erindale students will attend weekly lectures on the St. George Campus on Tuesdays at 6:00 p.m. Weekly seminar and tutorial meetings will be arranged. The facilities of the Erindale College Writing Laboratory are available for help in the preparation of written and oral reports. Further information can be obtained from Professor Van Fossen or from the Registrar's Office. Mrs. H. Davidson and others.

ITALIAN

Faculty Advisor: G. Pugliese

The Italian programme at Erindale is designed to provide a comprehensive and in-depth portrait of the diversity which is Italy, a country whose culture continues to be a significant force in the shaping of Western civilization. The greatest attention is devoted to literature, as a principal manifestation of the national spirit, with courses organized around major figures, movements or genres, but other facets of Italian life and civilization are also examined. Language is studied scientifically from all points of view - practical, stylistic, philological and historical - at all levels of instruction.

Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. Graduates in Italian are in demand and will continue to be. There are career opportunities in teaching, foreign affairs, government, social services, trade and law. Furthermore, the presence of large Italian communities throughout Canada, who have contributed so much to the enrichment of our culture, should provide a social, intellectual and practical incentive for the study of Italian.

In order to satisfy the specific needs of students with differing linguistic backgrounds and initial levels of preparation, special language and introductory literature courses have been devised. For example, ITA100Y(B) and ITA101H are intended exclusively for students who have no knowledge of Italian. ITA201Y(B) and ITA203S(B) are a continuation of these courses. After successfully completing the latter, students should be ready to take any of the upper-level courses.

Students are free to design for themselves the programme of study best suited to their interests and needs, and they can choose from available courses at Erindale and at St. George. There are conditions, however, which must be satisfied (a) for specialization (in Italian alone) and (b) for dual specialization (in Italian and another discipline). The programmes and conditions are as follows:

- | | |
|---------------------------|--|
| (a) Specialist programme: | 9 courses required. |
| First year: | One of ITA100Y/201Y/340Y. |
| Second year: | One language course, one literature course. |
| Third & Fourth year: | ITA310Y (Dante), one course on the Renaissance, four additional ITA courses. |
| (b) Dual specialization: | 7 courses required. |
| First year: | ITA100Y/201Y/340Y. |
| Second year: | One language course, one literature course. |
| Third & Fourth years: | ITA310Y (Dante), one course on the Renaissance, two additional ITA courses. |

Both programmes are valid, if the candidate has not less than B standing, for entry into the Type A Certificate programme at the Faculty of Education.

In case of uncertainty with regard to the programme of study, course content, graduate studies requirements, or any related matter, students are strongly advised to consult the discipline representative for Italian at Erindale.

ITA100Y(A) BEGINNING ITALIAN FOR DIALECT SPEAKERS

4L,1P

A course designed to introduce the student to the basic structures of the Italian language. Grammar, conversation, language laboratory, translation. EXCLUSION: Grade XIII ITA.

An introduction to the Italian language for students of non-Italian linguistic background. Essentials of grammar, oral practice, language laboratory, translation. EXCLUSION: Grade XIII ITA.

ITA101H INTENSIVE ORAL PRACTICE

1L,1P

The principal aim of this course is the development of basic oral skills in Italian. Some attention will be given to the development of writing skills as well. Audio-visual aids will be used extensively. For students with no linguistic background in Italian. EXCLUSION: Grade XIII ITA.

ITA201Y(A) CONTINUING ITALIAN FOR DIALECT OR NATIVE SPEAKERS

3L,1P

- (I) A comprehensive review of Italian grammar based on readings from a literary text. Composition and conversation are integral parts of this course. PREREQUISITE: ITA100Y(A)/Grade XIII ITA/P.I.

ITA201Y(B) CONTINUING ITALIAN

3L,1P

- (I) This course consists of a thorough review of grammatical structures and is designed to improve the students' self-expressiveness in Italian. Selections from contemporary authors and passages dealing with present-day issues are used as a basis for discussion in Italian. For students whose background in Italian is solely academic. PREREQUISITE: ITA100Y(B). Grade XIII ITA/P.I.

ITA203F(A) FORMS OF MODERN ITALIAN LITERATURE

2L,1T

- (I) An introduction to twentieth century Italian literature mainly through a study of representative "novelle" and plays. Selections will include short stories by Moravia, Bassani, Ginzburg and others and plays by Pirandello and others. PREREQUISITE: ITA100Y(A)/Grade XIII ITA/P.I. EXCLUSION: ITA202(1975-76).

ITA203S(B) FORMS OF MODERN ITALIAN LITERATURE

2L,1T

An introduction to twentieth century Italian literature mainly through a study of representative "novelle" and plays. Selections will be taken from the works of the major modern writers including Moravia and Pirandello. The course is designed specifically for students whose background in Italian is solely academic. PREREQUISITE: ITA100Y(B)/ P.I. EXCLUSION: ITA100Y(A)/Grade XIII ITA.

ITA205Y ITALIAN LITERATURE THROUGH THE AGES
(Formerly ITA300)

2L,1T

A survey of the shorter forms of Italian literature from the Middle Ages to the beginning of the twentieth century. Emphasis will be given to poems and "novelle", but theoretical pieces and short plays of recognized literary significance will also be examined. PREREQUISITE: ITA100Y/Grade XIII ITA/P.I.

ITA270F REALITY, MYTH, DEATH: THE MODERN ITALIAN NOVEL
(In English) (Not offered 1976-77)

2L

- (I) All classes will be conducted in English and all novels will be in English translation. Works to be read include: Moravia's The Conformist, Bassani's Garden of the Finzi-Contini, Silone's Bread and Wine. The novels and their background will be approached in informal group discussions.

ITA271S (I)	THE MODERN ITALIAN FILM (In English) (Not offered 1976-77) Some of the major films of Fellini, Antonioni and Visconti will be viewed and discussed. Films include: <u>Two Women</u> , <u>La dolce vita</u> and <u>Divorce Italian Style</u> . Attention will be devoted to such younger directors as Betolucci and Wertmuller.	2L
ITA272F (I)	PIRANDELLO AND THE MODERN ITALIAN THEATRE (In English) 2L,1T (Not offered 1976-77) The problem of conflicting realities and of the definition of the personality in the plays of Pirandello. Works by Betti and De Filippo (including <u>Marriage Italian Style</u>) will also be read. All texts and discussions will be in English.	
ITA275Y (I)	THE CULTURE OF THE ITALIAN RENAISSANCE (In English) 2L,1S A survey of the art forms, social ideals and intellectual ideology of the Italian people in the fifteenth and sixteenth centuries, with some attention also given to the political and economic conditions of the period. Artists, writers and philosophers, whose major works will be considered, include: Michelangelo, Leonardo da Vinci, Castiglione, Machiavelli, Cellini, Pico della Mirandola. Slides, records and other illustrative materials will be used.	
ITA310Y	DANTE'S <u>DIVINA COMMEDIA</u> An introduction to the work and thought of Dante, with special emphasis on the <u>Inferno</u> and <u>Purgatorio</u> . PREREQUISITE: ITA201Y/P.I.	2L,1T
ITA323F	MACHIAVELLI, CASTIGLIONE AND GUICCIARDINI A course on the social and political thought of the Italian Renaissance as reflected in Machiavelli's <u>Principe</u> , Castiglione's <u>Cortegiano</u> and Guicciardini's <u>Ricordi</u> . These works will also be considered from a literary point of view. PREREQUISITE: ITA201Y/P.I.	2L,1T
ITA324S	LEOPARDI'S <u>CANTI</u> (Not offered 1976-77) A close reading of the poetry of Italy's finest lyric poet in the light of his prose writings and within the context of Classical and Romantic traditions. PREREQUISITE: ITA201Y/P.I.	2L,1T
ITA326S	THE CANZONIERE OF PETRARCA (Formerly ITA313) A study of Petrarca's poetry with some consideration of his influence on Italian and other literatures. PREREQUISITE: ITA201Y/P.I.	2L,1T
ITA330S	TOPICS IN THE HISTORY OF THE ITALIAN LANGUAGE A study of the origin, evolution and principal traits of Italian throughout its history. Some of the topics treated: the linquistic transition from Latin to Italian, "la questione della lingua", the eighteenth century "philosophy" of language, Manzoni's theories. Representative texts will be used to illustrate the characteristics of Italian in every century. PREREQUISITE: ITA201Y/P.I.	2L,1T

ITA340Y

CREATIVE ITALIAN (I)

2L,1P

Advanced language course designed to give the student oral and written proficiency. Selected readings on questions of topical interest, discussions, compositions, some translation.
PREREQUISITE: ITA201Y/P.I.

ITA360Y

TWENTIETH CENTURY NOVEL AND DRAMA

2L,1S

Masterpieces of modern Italian fiction and drama analyzed against the background of modern-day Italy. One work will be examined in detail from each of the following novelists and playwrights: Svevo, Vittorini, Buzzati, Calvino, Pirandello, Betti and De Filippo. PREREQUISITE: ITA201Y/P.I.

ITA371F

INTRODUCTION TO MODERN ITALIAN POETRY

2L,1S

(Not offered 1976-77)

A critical appraisal of the poetry of the post-Romantic era and of the first half of the twentieth century. Poets studied: Pascoli, D'Annunzio, Gozzano, Saba, Ungaretti, Montale and others. PREREQUISITE: ITA201Y/P.I.

ITA395S

MAJOR NOVELS OF THE NINETEENTH CENTURY

2L,1S

(Not offered 1976-77)

A study of the genesis and evolution of the Italian novel, with a close reading of Alessandro Manzoni's I promessi sposi and Giovanni Verga's I Malavoglia. PREREQUISITE: ITA201Y/P.I.

ITA420Y

THE ITALIAN EPIC IN THE SIXTEENTH CENTURY

2L,1T

(Formerly ITA321) (Not offered 1976-77)

A study of Ariosto's Orlando furioso and Tasso's Gerusalemme liberata within the context of epic poetry.

ITA422S

FORMS OF THE ITALIAN RENAISSANCE THEATRE

2L,1T

An examination of the major comedies and pastoral plays of the Renaissance. Works to be studied will include Machiavelli's Mandragola, Tasso's Aminta and Guarini's Pastor fido. PREREQUISITE: ITA201Y/P.I.

ITA427F

BOCCACCIO

2L,1T

(Formerly ITA311F) (Not offered 1976-77)

A critical portrait of one of "the three crowns of Florence" through an examination of representative selections from his minor works and a detailed analysis of his masterpiece, the Decameron. PREREQUISITE: ITA201Y/P.I.

ITA436Y

THE EIGHTEENTH CENTURY IN ITALY

2L,1S

An investigation of the intellectual trends and literary forms in Italy from the pre-enlightenment to Romanticism. Readings from the works of Vico, Muratori, Gravina, Metastasio, Rolli, Parini, Verri, Beccaria, Goldoni, Alfieri and others. PREREQUISITE: ITA201Y/P.I.

LATIN
(See Classics)

LAT100Y

INTRODUCTORY LATIN

3T

A course designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman literature.

LAT228Y

INTRODUCTION TO ROMAN LAW
(Not offered 1976-77)

2T

The purpose of this course is to improve the Latin of students with some interest in law. The reading will be selections from the second century A.D. textbook of Roman law, the Institutes of Gaius, which divides its subject into the law of persons, the law of things and the law of actions. Schultz' Classical Roman Law will be used for reference. The course will include some lectures on the history of Roman Law. T.G. Elliott.
PREREQUISITE: XIII Latin, LAT100Y or equivalent.

LINGUISTICS

The aim of Linguistics is to develop an understanding of how all languages work, and of how languages use disparate means for the same effects. The theme is the unity and the variety of human language. Such a theme subsumes many variations, including grammatical theory and its application to data, language divergence and convergence in space and time, the sociocultural stratification of linguistic systems, normal and pathological language behaviour and language learning.

Undergraduate Linguistics is a valuable component of a liberal education, especially in a multilingual country such as Canada. It is also valuable as pre-professional training for people interested in teaching English, French or other languages, in areas of rehabilitative medicine such as audiology or speech therapy, in special education, in work with native peoples or with immigrant groups in our society, in religious and missionary work, or in academic disciplines such as psychology, philosophy, literature and language studies, where the contribution of linguistics is increasingly recognized as important.

LIN200Y

INTRODUCTION TO GENERAL LINGUISTICS

2L, 1T

Aims at describing certain universals in the phonological, morphological, syntactic and semantic structures of language. The principal purpose is not indoctrination into any particular school of linguistic thought but rather to acquaint students with the various possibilities of analyzing the components of language.

Since the primary goal is to serve as a valuable tool for students of English and foreign literatures, languages, psychology, anthropology, sociology, communications, etc., the course uses a multi-disciplinary approach.

LIN333Y

STRUCTURE OF ENGLISH

2L

A systematic approach to the structure of present-day English, with attention to semantic, syntactic and phonological patterns. R. Wardhaugh. PREREQUISITE: LIN200Y.

See also FRE373Y and SPA325S

MATHEMATICS

(See Applied Mathematics, Computer Science, and Statistics)

Faculty Advisor: Professor S.M. Trott

There are many different motivations for the study of Mathematics. To the humanist, Mathematics is a part of the mainstream of human culture, and he is likely to regard his subject as an art. To the scientist or social scientist it affords analytical and descriptive devices which greatly illuminate theory. To the engineer and economist it is an important working tool. To the mathematician, it is an end in itself. Mathematics endeavours to provide courses to suit all of these viewpoints.

The professional mathematician is most likely to find employment in universities, in the civil service or in government laboratories, and in financially or technologically oriented business firms. Research positions require post-graduate study. Such fields as teaching, computing, applied statistics, and actuarial science offer opportunities for graduates. A training in Mathematics has traditionally been a strong preparation for careers in law and business; today it is also an excellent foundation for further work in a wide variety of fields in the physical and social sciences.

The sequential nature of Mathematics means that prerequisites are essential in most courses and that, as a rule, it is disastrous to fall behind in a course. In other words, good preparation and steady work are essential to successful completion of a mathematics course, and students without one and/or unwilling to engage in the other are advised to avoid the subject. Where prerequisites are stated, they may be waived for students who can demonstrate adequate knowledge.

First year students with adequate preparation who want a substantial mathematics course either for its own sake or in conjunction with another field of study are advised to take MAT139Y.

Erindale College offers a range of courses sufficient for specialization in Mathematics for the first three years of study. Arrangements can be made for students with B-average or better to take a fourth year of study at the St. George Campus without transfer.

Program in Mathematics:

Erindale:

All of: MAT129Y, 139Y, 204F, 209S, 239Y, 340Y(G) or 350Y(G), CSC148F, 158S STA242Y and APM251Y, and three full course equivalents chosen with due regard to exclusions from the following: MAT140Y(G), 240F(G), 245S(G), 325Y(G), 364F(G), 330Y(G), 340Y(G), 350Y(G), 300Y, 314F, 319S; APM351Y; STA332F, 342S, 347S, 432F.

MAT105F/H INTRODUCTORY CALCULUS I

2L, 2T

Techniques of differentiation and integration. Extreme values. Systems of linear equations. EXCLUSION: MAT110Y(G), 130Y, 134Y, 135Y, 139Y, 150Y(G), 225Y(G).

MAT115S/H INTRODUCTORY CALCULUS II

2L, 2T

Calculation of limits. Related rates. Graph sketching. Applications of integration. EXCLUSION: MAT110Y(G), 130Y, 134Y, 135Y, 139Y, 150Y(G). PREREQUISITE: MAT105F/H.

MAT124S

FINITE MATHEMATICS

2L,2T

Vectors and linear transformations. Matrices and their properties. Notions of probability. Applications to linear programming, game theory, Markov chains. EXCLUSION: MAT225Y(G).

MAT129Y

ABSTRACT MATHEMATICS

2L,2T

(1) Inequalities and topology of the real numbers, properties of continuous functions. (2) Introduction to the concepts of abstract algebra including groups and rings. PREREQUISITE: Any two Grade XIII MAT courses.

MAT130Y

CALCULUS

2L,2T

Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of integration. Systems of linear equations. EXCLUSION: MAT105F/H, 110Y(G), 115S/H, 134Y, 135Y, 139Y, 150Y(G), 225Y(G). PREREQUISITE: Grade XIII MAT R&F or C.

MAT134Y

CALCULUS FOR SOCIAL SCIENTISTS

2L,2T

Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of integration. Vector spaces, linear transformations, matrices, linear equations. Introduction to differential equations. EXCLUSION: MAT105F/H, 110Y(G), 115S/H, 130Y, 135Y, 139Y, 150Y(G), 225Y(G). PREREQUISITE: Grade XIII MAT R&F and C.

MAT135Y

CALCULUS FOR SCIENTISTS

2L,2T

Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of integration. Vector spaces, linear transformations, matrices, linear equations. Introduction to differential equations. EXCLUSIONS: MAT105F/H, 110Y(G), 115S/H, 130Y, 134Y, 139Y, 150Y(G), 225Y(G). PREREQUISITE: Grade XIII R&F and C.

MAT139Y

CALCULUS AND LINEAR ALGEBRA I

2L,2T

Differentiation. Integration. Mean value theorem. Calculation of limits. Improper integrals. Vector spaces, linear transformations, matrices, linear equations, linear independence, dimension, rank, nullity, eigenvalues. Introduction to differential equations. Introduction to vector calculus. EXCLUSION: MAT105F/H, 110Y(G), 115S/H, 130Y, 134Y, 135Y, 139Y, 150Y(G), 224F, 225Y(G). PREREQUISITE: Grade XIII MAT A and R&F and C.

MAT204F/S

MODERN SYMBOLIC LOGIC

2L,1T

(Same as PHL250F/S)

(I)

Symbolic logic provides precise and efficient techniques for analyzing informal reasoning. It is therefore useful in fields as diverse as law, philosophy, mathematics, and computer science. Profound theorems of mathematics, having important philosophical implications, have come from the study of symbolic logic.

MAT209S

SET THEORY

(Same as PHL353S)

2L,1T

(I)

Does the barber who shaves just those who don't shave themselves shave himself? Is there a number bigger than infinity? Set theory is simultaneously the source and the solution of philosophical and mathematical paradoxes. In addition, it is the mathematics underlying all of mathematics.
PREREQUISITE: MAT204F (C or better).

MAT214F

DIFFERENTIAL EQUATIONS

2L,1T

Ordinary differential equations. Emphasis throughout on applications. This half course is identical with the first half of MAT235Y. EXCLUSIONS: APM251Y, MAT230Y(G), 234Y, 235Y. PREREQUISITE: MAT134Y/135Y/139Y/150Y(G).

MAT234Y

ADVANCED CALCULUS FOR SOCIAL SCIENTISTS

2L,1T

Introduction to sequences and series, power series, Taylor's series in one and many variables. Extremal problems in many variables with and without constraints, Lagrange multipliers, reduction of quadratic forms. Introduction to difference and differential equations, emphasizing linear equations with constant coefficients. EXCLUSION: MAT214F, 224F(G), 225Y(G), 230Y(G), 235Y, 239Y, 250Y(G). PREREQUISITE: MAT134Y /135Y /139Y /150Y(G).

MAT235Y

ADVANCED CALCULUS FOR SCIENTISTS

2L,1T

Sequences and series. Differential and Integral calculus of functions of several variables. Line and surface integrals. Ordinary differential equations. Emphasis throughout on applications. EXCLUSION: MAT214F, 224F(G), 225Y(G), 230Y(G), 235Y, 239Y, 250Y(G), APM251Y. PREREQUISITE: MAT134Y /135Y /139Y /150Y(G).

MAT239Y

CALCULUS AND LINEAR ALGEBRA II

2L,1T

A continuation of MAT139Y. Orthogonality. Mean value theorem, Taylor's approximation. Implicit and inverse function theorems. Multi-linear algebra, determinants. Integration of vector functions, change of variable formula. Applications to extrema and probability. EXCLUSION: MAT224Y(G) /225Y(G) /230Y(G) /234Y /235Y /239Y /250Y(G). PREREQUISITE: MAT139Y or MAT135Y with C or better. COREQUISITE: APM251Y (only if MAT135Y is used as a prerequisite).

MAT300Y

ALGEBRA

2L,1T

Number systems, groups, rings, fields, and perhaps some applications. EXCLUSION: MAT229Y(1973-74), 240Y, 340Y(G), 345Y(G), CSC348F. PREREQUISITE: MAT129Y.

MAT304F

INTERMEDIATE LOGIC
(Same as PHL350F)

2L

Is there an all-inclusive logical system? What are the scope and limits of the axiomatic method? Can all reasoning be done by computers? These and other difficult questions have been answered with the aid of modern metalogical techniques. The course provides an introduction to these techniques by studying such topics as definite descriptions, soundness, and completeness of propositional logic and metatheory of quantificational logic. A direct sequel to MAT204F. PREREQUISITE: MAT204F/S/PHL250F/S.

MAT 305S

PHILOSOPHY OF LOGIC AND MATHEMATICS
(Same as PHL351S)

2L

Some or all of the following topics are discussed from a semi-formal point of view: Platonism versus nominalism, the relation between logic and mathematics, epistemological implications of Gödel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, synonymy, intuitionism, constructivity. PREREQUISITE: MAT204F/S/PHL250F/S.

MAT 314F

POINT-SET TOPOLOGY

2L,1T

Brief review of set theory. Elementary topology, metric spaces, convexity in linear spaces, fixed point theorems. EXCLUSION: MAT350Y(G). PREREQUISITE: MAT230Y(G)/234Y /235Y /239Y /250Y(G).

MAT 319S

INTRODUCTION TO COMPLEX ANALYSIS

2L,1T

Cauchy's theorem, residue calculus, conformal mappings, an introduction to Fourier series. EXCLUSION: MAT334F(G) /330Y(G) /339Y(1973-74). PREREQUISITE: MAT230Y(G) /234Y /235Y /239Y /250Y(G).

MAT 399H

INDEPENDENT WORK IN MATHEMATICS

A prospective student should select his topic and advisor before the end of second year and discuss the topic with his advisor. PREREQUISITE: Acceptance by an advisor.

MUSIC

Faculty Advisor: Professor G.G. Jones

Music is approached as one of the liberal arts and taught as cultural history. The range of courses explores the art and folk music of western and non-western cultures. This humanistic emphasis aims at a high degree of correlation with other disciplines: for example, fine art, cultural anthropology, languages and literatures, history and philosophy. Any student of the University should find the generalist courses to be stimulating introductions to and explorations of world music.

In the specialist programme, the humanistic and historical approach is balanced by courses in theory and composition which provide craft and analytical tools. This programme constitutes excellent preparation for a variety of professional activities including music criticism, teaching in the primary and the secondary schools, library science, positions in publishing, broadcasting and the recording industry as well as for graduate studies in musicology and ethnomusicology leading to careers in university teaching. Students intending to specialize in music should contact Professor Olnick in the Faculty of Music during their first year; a limited number of specialist places are open by audition and interview held in September of each year.

MUS100Y

THE STUDY OF MUSIC LITERATURE

2L,1T

An introduction to world music dealing with the repertory of western music from the Middle Ages to the 20th century, non-western music of high civilizations, and popular music. Discussion of form, style and the interrelationship of music and culture. G.G. Jones.

MUS201F

MUSIC IN THE CONTEMPORARY WORLD

2L

The modern repertoire, including electronic, non-western and popular music developments. A non-specialist view of recent historical, theoretical, technological and social advances in music. PREREQUISITE: MUS100Y or P.I.

MUS304S

BACH

2L

(Not offered 1976-77)

Selected works of J.S. Bach as representative of the high baroque period. PREREQUISITE: MUS100Y or P.I.

MUS305F

BEETHOVEN

2L

(Not offered 1976-77)

A study of Beethoven's style and creative process with special reference to his sonatas, quartets and symphonies. PREREQUISITE: MUS100Y or P.I.

MUS400S

MUSIC AND THEATRE

2L

Music in the theatre - dance, play, opera and film - from the medieval to the contemporary world. PREREQUISITE: MUS100Y or P.I.

PHILOSOPHY

Faculty Advisor: Professor J.T. Stevenson

Philosophical questions are distinguished by their continuing fascination for the human mind and by the perennial elusiveness of their answers. But when even moderate progress is made towards their solution, the impact upon the world of learning is often enormous. Revolutions in thought that shake the foundations of the existing sciences have occurred and exciting new disciplines have emerged. In addition, perplexing difficulties have been uncovered in the underpinnings of the natural and social sciences as well as in the presuppositions of morality, freedom, responsibility, religion, and conventionally accepted values.

The role of the philosopher is that of Socrates, the self-styled "Gadfly", who refuses to play your game but insists on examining it critically instead. He asks why you made that move, recommends alternative strategies, and may even question the value of the game itself. Socrates was the first philosopher-kibitzer and he was put to death.

We invite you to kibitz with us and acquire the tools and techniques necessary for clarifying and evaluating the life and thought of the present and past ages. Apart from the physical hazard mentioned above, a critical scrutiny of our own most cherished convictions and deeply-rooted beliefs may well blow your mind.

A specialist programme in philosophy requires the successful completion of eighteen half courses in philosophy (the 100 level course counts as two half courses), at least half of which must be drawn from above the 200 level. A minor requires twelve half courses, at least half of which must be above the 200 level.

Students interested in specializing in Philosophy or in taking a minor should consult Professor Stevenson.

Although all courses in Philosophy are listed as half courses (with the exception of PHL100Y), many of them are planned as the Fall or Spring portion of a single year-long course and are normally taught by the same instructor in both terms.

An examination of a wide range of representative and important philosophical questions, such as: Are moral standards relative to one's society? Do human beings have freedom of the will? Are there rational grounds for belief in the existence of God? Is there such a thing as unselfish motivation? What is the relation between a person's mind and his body? Topics in semantics, logic and scientific method are also discussed with a view to avoiding certain common errors in reasoning.

(I)

Can we function as human beings in society without some form of morality? We do in fact level moral accusations, express moral indignation, pass moral judgments, allot praise and blame, and justify our own actions, but how can anyone know what is morally right? And why should anyone do what is right when it is not to his advantage? This course examines the relation between reason and morality in interpersonal relations and considers arguments for various ethical theories. (In sequence with PHL205F.)

(I)

Man's nature, his relation to his fellows and his place in the universe are all themes that have received significant literary and philosophical attention. Several major works of literature ranging from Greek tragedy to science fiction are examined with a view to clarifying and evaluating the philosophical doctrines they reveal and reflect. Among the authors studied in recent years: Sophocles, Camus, Brecht, Golding, Dostoevsky, Kafka, Vonnegut, Ayn Rand, and Arthur C. Clarke.

(I)

A study of principles and arguments in such contemporary problems as sexual morality, urban problems, Canadian nationalism, capital punishment, women's liberation, pollution, civil disobedience, conscientious objection, and revolution.

(I)

A selection of films from a variety of film types is shown and against this background there is a discussion of various questions concerning the aesthetics of film, such as: principles of film criticism; film space; form and content; the function of editing; acting; potentialities and limitations of the medium; "reality" in cinéma vérité.

(I)

A philosophical examination of the goals and function of a university in society. What is the social function and justification of granting degrees, conducting examinations or making academic evaluations? What does society demand of a university and what should it demand? Can and should a university remain politically isolated? These questions are dealt with in the light of critical examination of current work in the philosophy of education. (In sequence with PHL214S.)

(I)

(Not offered 1976-77) (Same as PHL213F)

PHL214S

PHILOSOPHY OF EDUCATION

2L,1T

(I) What are the proper goals of an educational system? How are they related to the kinds of social institutions and individual personalities we value? Topics discussed are drawn from the following: problems of learning theory, the knowledge industry, compulsory education, indoctrination and regimentation, moral, political and doctrinal neutrality of educational systems. (In sequence with PHL213F.)

PHL216F

DEVIANC E AND ABNORMALITY

2L,1T

(I) The notions of "deviance" and "abnormality" in the social sciences raise questions in theory of knowledge and ethics. According to what criteria do we decide that an action is "unnatural", a person is "insane" or "abnormal", a life-style is "deviant" or a political view is "irrational"? Is the application of these labels always arbitrary, subjective and culture-bound, or can it have some basis in human nature? (In sequence with PHL314S.)

PHL220F

BELIEF, KNOWLEDGE AND TRUTH

2L,1T

(I) Is it reasonable to accept things on faith? Do psychic experiments provide evidence of things denied by standard science? Are we inevitably biased towards the beliefs accepted and taught in our own culture? What can we be certain about? Is it possible or desirable to question everything? Such problems lead to the philosophical study of knowledge, belief, faith, truth, doubt, and certainty.

PHL220S

BELIEF, KNOWLEDGE AND TRUTH

2L,1T

(I) (Same as PHL220F.)

PHL230F

EXISTENTIALISM

2L,1T

(I) Sartre, Camus and others have helped make existentialism one of the most widely discussed philosophies of the present day. Principal themes examined are subjectivity, being and absurdity, freedom and choice, anxiety, dread and death. Students may concentrate on a single philosopher if they wish.

PHL232S

THE PHILOSOPHY OF BERTRAND RUSSELL

2L,1T

(I) "Three passions, simple but overwhelmingly strong, have governed my life: the longing for love, the search for knowledge and unbearable pity for the suffering of mankind." (Russell). Throughout his long career, Russell was associated with issues such as the emancipation of women, civil liberties and opposition to wars. He invariably supported the individual as opposed to civil or religious authority and the spirit of free enquiry as opposed to dogma. We concentrate here on the social and political aspects of Russell's thought. (Offered alternate years.)

PHL240F

THE BIRTH OF PHILOSOPHY 1: TO PLATO

2L,1T

(I) Is morality merely an instrument in the hands of those who control the state? In answering this question Plato sketches the first account of a utopian society and deals with every important philosophical topic: the subjectivity of perception, the nature of knowledge, the relation between mind and body, the conventionalism or relativism of morality. Plato is the first major philosopher and his influence has been enormous. (In sequence with PHL241S.)

(I)

Aristotle, like his teacher Plato, deals with every important philosophical issue including the nature of the universe, God, man in society, and metaphysics and, like Plato, he leaves the stamp of his own genius upon each. His views largely determined thinking on these matters until the time of the Renaissance and they continue to exert a powerful though little-noticed influence upon the thought of our own day. We therefore stress the contemporary relevance of the doctrines examined. (In sequence with PHL240F.) Only students who have taken PHL240F may take this course.

(I)

This great formative era of modern philosophy is marked by the decline of mediaeval conceptions and the rise of modern science. Under the influence of the newly-emerging world-view, philosophers in this "age of reason" developed original analyses of knowledge and certainty, appearance and reality, freedom and necessity, mind and matter, deduction and experiment. Hobbes, Descartes, Spinoza and Locke are examined in some detail and others to a lesser extent. (In sequence with PHL244S).

(I)

The philosophers of this period developed further the insights of their predecessors. Berkeley is noted for his subtle and ingenious arguments whereby he challenges the reality of an external world of material objects. Hume is the major British philosopher and is renowned for his skeptical attacks upon established beliefs and doctrines. Kant, the major German philosopher, has been a most powerful influence dominating the thought of the nineteenth century. Other philosophers of the time are examined to a lesser extent. (In sequence with PHL243F.)

(I)

Symbolic logic provides precise and efficient techniques for analyzing informal reasoning. It is therefore useful in fields as diverse as law, philosophy, mathematics, and computer science. The most profound theorems of mathematics, having important philosophical implications, have come from the study of symbolic logic. (In sequence with PHL353S.)

(I)

(Same as PHL250F/MAT204F.)

(I)

An introduction to some of the following topics: the nature of religion, religious faith, arguments for God's existence, religious experience, religion and human autonomy, the problem of evil, religious and atheistic existentialism. EXCLUSION: PHI280Y(G).

(I)

What is a person? Is a person a body animated by a mysterious ghostly entity called a "mind" or a "soul"? Or should we say that when we talk of minds we are really talking about brains or about behaviour? Does the mind or soul survive death? We examine criteria of identity of persons over time and the justification of claims that the bodies we see are bodies of persons having thoughts and experiences like our own.

PHL283S

THE ANALYSIS OF PROPAGANDA

2L,1T

- (I) A philosophical examination of various techniques of persuasion including psychological warfare, indoctrination and advertising. Topics include the emotive use of language, persuasive definitions, informal fallacies, the ethical presuppositions of propaganda, and the relevance of contemporary analyses of morality to propaganda.

PHL290S

BUDDHISM AND WESTERN PHILOSOPHY

2L,1T

- (I) From the point of view of contemporary Anglo-American philosophy, we will examine some central themes of Buddhist thought. Parts of such Buddhist texts as the Diamond Sutra and the Lankavatara Sutra will be studied in translation. Such questions as the following will be discussed: The nature and existence of the self or ego. Causation, freedom and determinism. The relationship between conceptualization and truth.

PHL296F

MORALITY, MEDICINE AND THE LAW

2L,1T

- (I) An examination of controversial medical issues from a legal and philosophical standpoint. Among the topics considered: the involuntary commitment of the mentally ill, the protection of privacy in the doctor-patient relationship, informed consent in medical treatment, experimentation on human subjects, organ transplantation, genetic engineering, abortion, euthanasia and the right to life. EXCLUSION: PHI276F/S (G).

PHL296S

MORALITY, MEDICINE AND THE LAW

2L,1T

- (I) (Same as PHL296F)

PHL300S

CONTEMPORARY ETHICAL THEORY

2L,1T

- An investigation of current trends in the fields of moral philosophy and metaethics. In the area of metaethics we study the meaning of ethical statements as well as the point of studying the meaning of ethical statements.

PHL310F

CONTEMPORARY POLITICAL PHILOSOPHY

2L,1T

- An investigation of current trends and problems in the field of political philosophy. PREREQUISITE: Three half-courses in Philosophy.

PHL312S

PHILOSOPHY OF LAW

2L,1T

- Law, paradoxically, provides both shackles and freedom. Is the law's double aspect due to the unique role it plays in organized societies and states? Can there be law without coercion? Should the law legislate morals? What is the rationale of legal punishment? Are judicial decisions arbitrary? Classical and contemporary theories of jurisprudence are assessed according to the answers they provide to these and related questions. PREREQUISITE: Three half-courses in Philosophy or three courses in the Social Sciences.

PHL 314S

PHILOSOPHY OF SOCIAL SCIENCE

2L, 1T

Topics and issues include: subjectivism; objectivity and values, individualism; determinism and social change; the nature and use of models and theories; explanation in approaches like Functionalism and Behaviourism. (In sequence with PHL216F.) PREREQUISITE: Two courses in the Social Sciences/P.I.

PHL 315S

PHILOSOPHY OF HISTORY

2L, 1T

The concepts, presuppositions, methods and types of arguments used by historians are analyzed and assessed. Among the questions examined are these: What is the role of general laws in historical explanation? Can history be objective? Is history determined? Do historical explanations differ from scientific explanations? Is history without value-judgments possible? PREREQUISITE: Three courses in History or three half courses in Philosophy.

PHL 320F

THEORY OF KNOWLEDGE

2L, 1T

A seminar course dealing with specific problems in the theory of knowledge; e.g., perception, necessary truth, knowledge and belief, and induction. EXCLUSION: PHI352Y(G). PREREQUISITE: Three half courses in Philosophy (PHL220Y recommended).

PHL 330S

PHENOMENOLOGY

2L, 1T

An examination of phenomenological method, either through a problem or through a study of a particular philosopher's thought (e.g. Meinong, Husserl, Merleau-Ponty). EXCLUSION: PHI340Y(G). PREREQUISITE: Three half-courses in Philosophy (PHL230F/S, 344F/S recommended).

PHL 347FNINETEENTH CENTURY PHILOSOPHY
(Not offered 1976-77)

2L, 1T

Traditional philosophical paths of reasoning and subject matter are abandoned in this most explosive and revolutionary period of thought. Philosophers like Hegel, Marx, Kierkegaard, Comte and Nietzsche bring in new concepts such as the effect of history upon philosophy, theories of dialectical materialism, existentialism, sociology, evolution and the influence of the dilemmas of our own day. (In sequence with PHL348S.) PREREQUISITE: Three half courses in Philosophy (PHL244S/344F recommended).

PHL 348S

TWENTIETH CENTURY BRITISH PHILOSOPHY
(Not offered 1976-77)

2L, 1T

A survey of some main trends in contemporary philosophy including influential contributions to the fields of logical analysis, linguistics and science. Among the more important figures studied are Russell, Moore and Wittgenstein. (In sequence with PHL347F.) (Offered alternate years.) PREREQUISITE: Three half courses in Philosophy.

PHL 350F

INTERMEDIATE LOGIC
(Same as MAT304F)

2L

Is there an all-inclusive logical system? What are the scope and limits of the axiomatic method? Can all reasoning be done by computers? These and other difficult questions have been answered with the aid of modern metalogical techniques. The course provides an introduction to these techniques by studying such topics as definite descriptions, soundness, and completeness of propositional logic and the metatheory of quantificational logic. A direct sequel to PHL250/MAT204F. PREREQUISITE: PHL250F/MAT204F.

PHL 351S	PHILOSOPHY OF LOGIC AND MATHEMATICS (Same as MAT305S)	2L
	Some or all of the following topics are discussed from a semi-formal point of view: Platonism versus nominalism, the relation between logic and mathematics, epistemological implications of Godel's and Church's theorems, counterfactuals, necessity and possibility, extensional and intensional contexts, synonymy, intuitionism, constructivity. (In sequence with PHL350F.) (Offered alternate years.) PREREQUISITE: PHL250F/MAT204F.	
PHL 353S	SET THEORY (Same as MAT209S)	2L,1T
(I)	Does the barber who shaves just those who don't shave themselves shave himself? Is there a number bigger than infinity? Set theory is not only the source of philosophical and mathematical paradoxes but also provides the means for their solution. In addition, it is generally accepted as the mathematics underlying all of mathematics. (In sequence with PHL 250F.) PREREQUISITE: PHL250F/MAT204F.	
PHL 360F	METAPHYSICS	2L,1T
	A seminar course dealing with specific problems in metaphysics; e.g. space and time, existence, change and substance. EXCLUSION: PHL355Y(G). PREREQUISITE: Three half-courses in Philosophy.	
PHL 370S	PHILOSOPHY OF NATURAL SCIENCE (Not offered 1976-77)	2L,1T
	An analysis of some of the theoretical and methodological assumptions of the natural sciences. EXCLUSION: PHL395F/S(G). PREREQUISITE: Three half-courses in Philosophy and one full course in Natural science, or two full courses in Natural Science.	
PHL 382F	PHILOSOPHY AND GRAMMAR (Not offered 1976-77)	2L,1T
	Logical Positivism, "Oxford Philosophy", Structuralism, and modern Generative Linguistics have all suggested claims about the relevance of grammar, variously understood, to certain philosophical problems. This course will examine the rationale of going from structural considerations to hypotheses about mind, metaphysics, and meaning. PREREQUISITE: Three half-courses in Philosophy.	
PHL 390S	TOPICS IN AESTHETICS	2L,1T
	Some topics in the philosophy of art and beauty such as: aesthetic perception and judgement, standards of criticism, the nature of art, traditional and modern theories of art, censorship, and whether art should serve moral or political purposes. PREREQUISITE: Three half-courses in Philosophy (PHL204F/PHL207S recommended); or one full course in Art History or Fine Art.	
PHL 392F/S PHL 393F/S	TOPICS IN THE HISTORY OF PHILOSOPHY	2L,1T
	Each course deals with the philosophical system developed by one of the major philosophers from antiquity to modern times. PREREQUISITE: Three half-courses in Philosophy.	

PHL 397F/S SPECIAL TUTORIAL
398F/S, PREREQUISITE: Three half-courses in Philosophy.
399F/S

PHL 496F, INDIVIDUAL STUDIES
497S, 498F, A project of reading and research, supervised by a
499S faculty member. Proposed projects are subject to
 the availability of a faculty supervisor. See the
 Discipline Representative for details.

PHYSICS

Faculty Advisor: Professor S.H. Vosko

Physics was born of a desire to understand nature in a quantitative way. Guided by experiment and intuition, physicists arrive at mathematical relations among various concepts and these are then tested experimentally and extended by further research. The physics courses offered at Erindale are designed to help students both to understand and to use the concepts and relationships which have been developed, and to appreciate the need for continual questioning of scientific theories. The liberal arts student should gain insight into the nature of scientific investigation, while the student whose interest is in sciences other than physics should acquire a background knowledge leading to a deeper understanding of his own discipline. Students intending to specialize in physics will meet a broad programme of courses which will prepare them for advanced study.

The present programme in Physics at Erindale College employs the most up-to-date demonstration apparatus and undergraduate facilities. It has been designed to meet the diverse needs of the physics students of the College.

Students wishing to specialize in physics should consult a physics professor.

Recommended first-year programmes:

- i) for physics and science specialists:
PHY135Y, MAT135Y/139Y
- ii) for generalists, pre-meds, etc.
PHY110Y, MAT130Y/MAT135Y.

PHY210Y is recommended to students in Life Sciences, Geography and Anthropology who wish to take a second course in Physics.

Physics Specialist Programme at Erindale

Year I PHY135Y, MAT139Y
Year II PHY230Y, 254Y, APM251Y, MAT239Y
Year III PHY325Y, 330Y, 352Y, 355Y, APM311F, MAT319S
Year IV Three 400 series PHY courses
(PHY211Y is suggested to students interested in experimental physics.)

Physics Minor Programme at Erindale

Year I PHY135Y/110Y, MAY135Y
Year II PHY230Y, MAT235Y
Year III PHY330Y, 325Y, APM311F
Plus PHY211Y and AST310F/AST320S/MAT319S

PHY110Y

THE WORLD OF PHYSICS

2L,1½P,1T

Numerous major technical advances of the 20th century can be traced to new discoveries of modern physics. A basic understanding of the subject is therefore important in today's society. Students will be presented with a sound overview of physics. Laboratory work and lecture demonstrations will be used extensively as aids. The subject material includes: space, time and matter; energy and sources of power; wave motion; light and sound; mechanics; planetary motion and special relativity; electricity, magnetism and the physics of solids; atomic and nuclear physics. B. Hede and G. Stegeman.

EXCLUSION: PHY135Y. PREREQUISITE: Grade XIII MAT R&F or C. COREQUISITE: MAT (105F & 115S) /130Y/135Y/139Y.

PHY135Y

PRINCIPLES OF PHYSICS 1

2L,1½P,1T

Designed to provide science specialists with a good quantitative foundation in physics and experience in applying physical principles. The core of the course is the systematic development of classical mechanics and its application in other fields of physics such as electromagnetism and nuclear physics. Relativistic mechanics is also introduced. Emphasis on problem-solving. Good standing in Grade XIII Physics and Mathematics is recommended. EXCLUSION: PHY110Y. PREREQUISITE: Grade XIII PHY, Grade XIII MAT R&F and C. COREQUISITE: MAT135Y/139Y.

PHY210Y

MODERN PHYSICS IN MEDICINE AND TECHNOLOGY

2L,1T

The generation of electricity by nuclear fission to operate a surgical laser illustrates the usefulness of modern physics. This course will show how some recent concepts in physics can be simply understood and applied to a wide variety of problems in medicine and technology. A selection will be made from the following topics: the mechanics of the body, fluid flow and blood circulation, radar, lasers, holography, colour vision, nuclear reactors, radioisotopes and tracer techniques, x-rays, ultrasonics, audiology, electrical activity of nerves, scientific and medical instrumentation, cryogenics and superconductivity. R.F. Code. PREREQUISITE: PHY110Y/135Y, MAT (105F & 115S) /130Y/134Y/135Y/139Y.

PHY211Y

ELECTRONICS

2L,2P,1T

A course in the theory of modern electronic devices, designed for students of the physical and biological sciences. Practical experience is provided through weekly laboratory sessions. Topics include: D.C. and A.C. circuit theory, semiconductor diodes and transistors, rectification, amplification, operational amplifiers, oscillators, pulse circuitry with applications to digital computers. H.W. Taylor. PREREQUISITE: PHY110Y/135Y, MAT (105F&115S)/130Y/135Y/139Y/P.I.

PHY230Y

ELECTROMAGNETISM AND MODERN PHYSICS

3L,1P,1T

A basic course dealing with the following subject areas: electrostatics, Gauss's Law, electrical instruments, DC circuits, Ohm's Law, magnetostatics, Faraday's Law, AC circuits, resonance theory, and an introduction to Maxwell's equations and electromagnetic fields. The last part of the course deals with some introductory topics in modern physics, such as the quantum theory of radiation, the concept of the photon, and basic atomic structure. The elements of vector analysis will be introduced as required. Laboratory experiments are performed which illustrate subject areas such as the electric field, AC circuits, the Hall effect, etc. PREREQUISITE: PHY110Y/135Y, MAT (105F & 115S) /130Y/135Y/139Y.

PHY254Y

PRINCIPLES OF PHYSICS II

2L, ½P, 1T

An introduction to thermal physics and a second look at mechanics and wave motion for science specialists. Topics to be included are heat conduction, convection and radiation, the first and second laws of thermodynamics, and elementary statistical mechanics; orbital mechanics, rigid-body rotation, and examples of Lagrangian methods; wave theory and interference phenomena, including applications to electromagnetic, sound and surface waves. D.J. Dunlop.
PREREQUISITE: PHY135Y/(PHY110Y and P.I.), MAT135Y/139Y.
COREQUISITE: APM251Y, MAT239Y.

PHY325Y

ADVANCED PHYSICS LABORATORY

6P

Introduces some advanced concepts of physics through a set of selected experiments. Topics include laser physics, nuclear magnetic resonance, microwave optics, cosmic ray showers, absorption of gamma rays, acoustooptics, electron diffraction, gamma ray counting, coincidence counting. A few selected students may have the opportunity to participate in research activities. R.F. Code, G.I.A. Stegeman and H.W. Taylor.
PREREQUISITE: PHY230Y. COREQUISITE: PHY330Y.

PHY330Y

QUANTUM PHYSICS

2L, 1T

Deals with the twentieth century evolution in physics which led directly to the understanding of matter on a microscopic atomic scale. The quantization of light, energy and angular momentum, the wave-particular duality, the Schrödinger equation and its solution for simple systems, atomic systems, the properties of matter and an introduction to nuclear physics and elementary particles will be treated from a conceptual point of view.
PREREQUISITE: PHY230Y, APM251Y/MAT235Y/(MAT239Y and 214F).
COREQUISITE: APM311F/351Y.

PHY352Y

ELECTROMAGNETIC THEORY

2L, 1T

An advanced treatment of electromagnetism, with special emphasis on the structure and application of Maxwell's equations. Topics in electrostatics include multipole expansions and methods of finding fields in vacuum and dielectrics. Magnetic fields and Maxwell's equations are introduced in the context of special relativity. Also treated are the propagation of electromagnetic waves in various media and radiation from antennas. PREREQUISITE: PHY230Y, 254Y, APM251Y, MAT239Y. COREQUISITE: PHY355Y, APM311F/351Y, MAT319S.

PHY355Y

TOPICS IN CLASSICAL THEORETICAL PHYSICS

2L, 1T

Discussion of the partial differential equations of classical theoretical physics (e.g. the wave equation, heat flow in solids) and their solution in terms of the special functions. Applications of complex variable theory to problems in physics. S.H. Vosko. PREREQUISITE: PHY230Y, 254Y, APM251Y, MAT239Y.
COREQUISITE: APM351Y/351Y, MAT319S.

PHY450Y

QUANTUM MECHANICS

2L, 1T

Quantum Mechanics is the language for the description of all microscopic phenomena in modern physics. It forms the basis of quantitative discussion of solid state, atomic, nuclear and elementary particle physics. The course attempts a rigorous first treatment of the subject for students who are already familiar with the qualitative aspects of modern physics. Topics will include: Schrödinger equation, operators and

expectation values, angular momentum, Pauli principle and perturbation theory. Applications to atomic, solid state and nuclear physics will be used as examples. PREREQUISITE: PHY330Y/CHM320Y/321Y.

PHY451F

STATISTICAL MECHANICS

2L

Statistical mechanics provides a microscopic explanation for the properties of macroscopic systems in equilibrium. The ensemble approach of Gibbs is developed to provide a microscopic understanding of thermodynamic laws, and to calculate the equations of state and thermodynamic properties of ideal gases. Thermodynamic potentials are introduced and used extensively. The quantum statistics of fermions and bosons are derived and applied to the quantum ideal gases and Bose condensation. Properties of real gases, liquid helium, and electrons in metals are briefly described. PREREQUISITE: PHY252F/ 254Y, 330Y.

PHY453F

INTRODUCTION TO NUCLEAR PHYSICS

2L

A basic course which establishes the fundamental properties of the atomic nucleus. Among the topics which will be discussed are: nuclear stability, radioactivity, nuclear radiations, the detection of nuclear radiations, nuclear reactions and fission. PREREQUISITE: PHY330Y/CHM320Y/321Y.

PHY455S

INTRODUCTION TO SOLID STATE PHYSICS

2L

The fundamental features of solid state physics will be presented. Topics will include: crystal lattices and their symmetry; wave propagation in periodic structures, phonons; thermal properties of lattices; electrons in crystalline solids including simple examples of band structures; the principle properties of metals, semiconductors and insulators; free-electron theory of metals. PREREQUISITE: PHY330Y/CHM320Y/CHM321Y.

PHY456S

QUANTUM OPTICS

2L

The evolution of modern optics over the last fifteen years has centred about the discovery of the laser and its many applications. Deals with the basic principles of spontaneous and stimulated emission of radiation, laser action and laser resonators, the applications of lasers in scattering experiments, holography and communications systems involving fibre and integrated optics. PREREQUISITE: PHY330Y/CHM320Y/CHM321Y.

POLITICAL SCIENCE

Faculty Advisor: Professor R.A Fenn

Political science is the study of politics and government. In general, politics are the ways in which the decisions are made about who is to rule in a society and what laws and policies are to prevail within its physical boundaries, while government is the process by which general rules are carried out. Part of political science is given over to describing specific processes or events - for example, a particular Canadian party

leadership convention or such Canadian conventions generally - in somewhat the same way a biologist would describe something in physical nature. But political science will go from these particularities to generalizations. One may describe political violence in contemporary Canada within the framework of an analysis of violence in countries similar to ours or, even more generally, in all societies both past and present. The study of politics at Erindale deals not only with how politics and government do proceed but how they should be carried on in the light of a long tradition of political philosophy. Thus students will be introduced in some courses to such questions as - what tests do we apply to determine whether one kind of government is better than another? who should rule? under what conditions, if any, have people a moral obligation to disobey government?

In spite of its fascination for many people, political science is a demanding study. This is so partly because its subject-matter is very complex. But more than that, we all bring to political science opinions about what is and what ought to be which we have accepted uncritically. Here are some questions to which most people would give ready answers:

(1) are totalitarian nations more likely to have aggressive foreign policies than have democratic countries? (2) is it desirable that governments should not try to "legislate morality"? (3) are we more likely to control environmental pollution if we vest powers over such matters in larger rather than smaller units of government?

Although most of us would be willing to make snap judgments about such questions as these, each is very complex and our opinions are probably no better founded than are those of non-experts about, say, the law of relativity or the causes of the common cold. The study of political science will not eliminate political prejudices and is not directed toward eliminating political convictions but at a minimum it gives a person more ability than he has otherwise to give an account of the basis of his beliefs both about what the political world is and what it can and should be.

The Specialist programme requires standing in at least 10 courses in Political Science, of which at least 8 must be 200 or higher series courses, taken as part of a four year programme. Students taking a specialist programme must enrol with the Department of Political Economy. (Note: COM323Y Introduction to Public Administration, can be considered as a POL course, POL322Y).

Suggested First Year Preparation: One or Two of: POL100Y, POL101Y, POL104Y. POL100Y is a prerequisite for advanced courses in Canadian Government and Public Administration. Students will find ECO100Y particularly useful.

Second, Third and Fourth Years. Students must include the following in their programmes: At least two full year courses in Political Theory from POL200Y, POL320Y, POL329Y (or from additional offerings on the St. George Campus). At least one full course from each of four of the following five fields

Comparative Politics (Developed Countries)
Comparative Politics (Developing Countries)
International Relations
Canadian Government and Public Administration
Political Behaviour

Minor Programme in Political Science

The minor programme requires standing in at least six courses in Political Science, of which four must be 200 or higher series courses. Students must include the following in their programme:

One of POL101Y, POL200Y.

One course from each of two of the following five fields:

Comparative Politics (Developed Countries)
Comparative Politics (Developing Countries)
International Relations
Canadian Government and Public Administration
Political Behaviour

Three additional courses in Political Science

Specialist Programme in Economics and Political Science

The specialist programme in Economics and Political Science requires standing in seven Economics courses and six Political Science courses. Students must include the following courses in their programme:

Economics

One of ECO100Y, ECO102Y(G), ECO103Y(G)

One of ECO200Y, ECO210Y(G)

One of ECO202Y, ECO212Y(G)

ECO322Y

One of ECO101Y(G), ECO201Y, ECO221Y, ECO222Y(G), ECO300Y(G), ECO302Y(G)

ECO303Y(G), ECO305Y(G), ECO342Y(G).

Two additional Economics courses

Political Science

POL100Y

POL214Y

Two of POL101Y, POL200Y, POL320Y

Two additional courses in Political Science (one course from two of the following five fields):

Comparative Politics (Developed Countries)

Comparative Politics (Developing Countries)

International Relations

Canadian Government and Public Administration

Political Behaviour

POL100Y	INTRODUCTION TO CANADIAN POLITICS	2L,1T
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A study of the political process in Canada, including Canadian political culture, the formation of public opinion, political behaviour, political parties, the constitution, federalism, French Canada, federal-provincial financial relations, and the structure and functioning of political institutions, such as the cabinet, parliament, the judiciary, and the public service.
P. Silcox, and P.W. Fox.

POL101Y	INTRODUCTION TO POLITICAL PHILOSOPHY	2L
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The course is intended to introduce students to the most serious general theoretical statements about the nature of politics and the character of the just regime, the regime most appropriate for living the good life. It proceeds by careful study of some of the classic texts in the tradition and also hopes to give a training in how to read the great books dealing with political theory and moral problems. A. Kontos.

POL104Y	FOREIGN POLITICAL INSTITUTIONS	2L,1T
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A contemporary course stressing foreign political movements and forms of government relevant to twentieth century politics; Presidential government (U.S.); Parliamentary systems (France and Germany); Soviet Communism; and the fascism of Mussolini's Italy and Nazi Germany. J.E. Smith.

POL200Y	POLITICAL THEORY	2L
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The development of political thought from Plato to the controversies surrounding the French revolution. Among the theorists examined are Aristotle, Machiavelli, Hobbes, Locke and Rousseau. D. Cook.

POL203Y	POLITICS AND GOVERNMENT OF THE UNITED STATES	2L
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A comparative study of the development of American government and the main elements of the American political tradition; the structure and functioning of executives, legislatures, courts, bureaucracies, parties, and pressure groups in federal and

state government; characteristic processes of American politics such as voting, bargaining, and regulation; and resultant patterns of public policy. P. Solomon.

POL204Y	POLITICS AND GOVERNMENT OF THE U.S.S.R. (First part of course lectures, second part seminars) The first part of the course deals with the historical development of the Soviet political system. The second part deals with a number of current issues: the leadership; party-state relations; public administration; political socialization; and, interest groups. R.B. Day.	2L
<u>POL207Y</u>	<u>POLITICS IN CHINA: THEORY AND PRACTICE</u>	2L
	A survey of Chinese politics with emphasis on the Maoist revolutionary model and its practical consequences. R.A. Fenn.	
POL208Y	INTRODUCTION TO INTERNATIONAL RELATIONS	2L
	A study of International systems with emphasis on the sources, patterns and resolution of interstate conflict. R. Gregor.	
<u>POL212Y</u>	<u>POLITICAL MASS MOVEMENTS</u> (Not offered 1976-77) Examines the values and inherent complexities of democratic society and its nondemocratic alternatives, i.e. Communism, Fascism, Nazism. J. Barros.	2L
<u>POL214Y</u>	<u>THE STATE AND ECONOMIC LIFE</u>	2L
	Considers the main premises of Marxism, liberalism and Democratic Socialism; the relationship between the Welfare State and the Rule of Law; economic planning and trade union activity in socialist and mixed economies; the role of interest groups in an administrative society; and the relation between political and economic structures. R.B.Day, PREREQUISITE: POL100Y/101Y/ECO100Y.	
POL221F	POLITICAL PARTICIPATION (Not offered 1976-77) How and why do people get involved in politics? An examination of the behaviour of the ordinary citizen in Canada and the United States. Topics to be considered include: the development of mass democracy; the form and extension of popular participation; elections and voting behaviour; political protest movements. J. Terry.	2L
POL222S	ELITES AND POLITICAL LEADERSHIP (Not offered 1976-77) An introduction to the study of political leadership and the exercise of political power. Topics will include the relationship of political leaders to the non-political elites in society, the cohesiveness and responsiveness of political leadership, the turnover of elite personnel, and the characteristics and processes of decision-making. D. Rayside.	2L
POL308Y	URBAN POLITICS	2L, $\frac{1}{2}$ T
	This is a comparative course dealing with Urban Politics in Canada, Britain and the United States. It will deal with governmental structure, political issues, and the political process in urban areas. A major element of the course will be a research paper on some aspect of politics in the metropolitan Toronto area. Students are encouraged to read H. Kaplan, <u>Regional City</u> , and E.C. Banfield and J.Q. Wilson, <u>City Politics</u> as an introduction to the course. P. Silcox.	

POL314Y

PUBLIC OPINION AND VOTING

2L

An examination of the nature of political attitudes and opinions, the processes by which they are acquired, their use in describing political culture, and the role of opinions and attitudes as explanations of individuals' voting choices. Research on Canadian politics will be discussed in comparison with studies in other countries. P. Fletcher. (This course alternates with POL221F/222S.)

POL320Y

MODERN POLITICAL THOUGHT

2L

This course examines the development of political thought in the period beginning after the French Revolution and continuing through the nineteenth century, with special attention to the implications of this development for political thought in the twentieth century. Both democratic and anti-democratic tendencies are considered. R. Fenn, A. Kontos.

POL322Y

INTRODUCTION TO PUBLIC ADMINISTRATION

2L

An introduction to the literature of public administration and to some of the main issues of the present and recent past in Canada (and to a limited extent in Britain and other countries). In other countries primary emphasis will be on policies or features that have influenced Canadian practice. EXCLUSION: COM441F(G), COM442S(G). PREREQUISITE: POL100Y/COM100Y/COM102Y(1975-76).

POL323Y

TOPICS IN CANADIAN POLITICS

2L

A workshop or seminar meeting weekly in two-hour sessions. Students will be responsible for completing one major research or reading project or alternatively two term projects in areas of their own choosing in Canadian politics. Sessions will be devoted to reviewing and analyzing material related to course topics and to reports on work in progress or completed. F.W. Peers.

POL328Y

INTERNATIONAL ORGANIZATION

2S

A weekly two-hour research seminar concerned with the development, structures, and functions of international organizations. The emphasis is on the political impact of international organizations in international relations. Most attention will be focused on the two universal, political organizations, the United Nations and its forerunner, the League of Nations. Other international organizations will also be considered. J. Barros.

POL329Y

MARXISM

2L

A survey of Marxist political thought dealing with the works of Marx; the German Social Democrats; Lenin, Trotsky and the Russian revolution; Maoism, and the problems of modern Communism. R.B. Day. EXCLUSION: SOC408Y(G). PREREQUISITE: A course in political theory or philosophy.

POL337Y

COMPARATIVE EUROPEAN POLITICS

2L

An analysis of the main political systems of liberal democratic West Europe and communist East Europe. H.G. Skilling, D. Rayside.

POL440Y

UNDERGRADUATE THESIS

An independent research course to be undertaken by students specializing in Political Science. PREREQUISITE: P.I. and Discipline Representative.

PSYCHOLOGY

Faculty Advisors: Professors B. Schneider and P.L. Pliner

Psychology is the science which examines the structure and organization of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environment. Emphasis is directed toward cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organization of the senses, modes of perceiving and responding, the environment and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotion, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.

Because of the demands of science for rigor and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of experimental findings is paramount in all psychology courses.

Students who are interested in psychology as a career must be prepared for several years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, mental hospitals and clinics, government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not in itself a professional qualification. People holding bachelor's degrees in psychology typically find employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers (e.g. in medicine, law, nursing, education, etc.).

Specialist Programme in Psychology

The specialist programme in psychology is designed to give the student an "in-depth" exposure to three areas of psychology: (1) Biological Bases of Behaviour; (2) Developmental and Social Processes; (3) Learning and Cognition. Ten full courses in psychology or their equivalent are required. (Two half courses in psychology are considered as equivalent to a full course in terms of meeting this requirement.) All candidates for specialization must take PSY100Y, 200F, and 201S, as well as one full course in a cognate area as listed in I.2. In addition, the remaining eight full courses in Psychology must satisfy the distribution requirements listed below in sections II.2 and III.1 and the laboratory requirement in Section III.2. The student interested in specializing in psychology should take into account these distribution requirements as well as course prerequisites in planning his remaining eight courses. It should be noted that a single course may not be used to satisfy more than one distribution requirement.

I. 100-level courses

1. PSY100Y
2. One of ANT101Y/BIO100Y/SOC101Y/PHL100Y/MAT134Y/MAT124S/MAT204F

II. 200-level courses

1. PSY200F, PSY201S
2. One course, either full or half, from each category
 - a. Biological Bases of Behaviour. PSY209Y/PSY213F
 - b. Developmental and Social Processes. PSY203Y/PSY204S/PSY268Y
 - c. Learning and Cognition. PSY208F/PSY213F/PSY218F

III.300-and-400 level courses.

1. One course, either full or half, from each category
 - a. Biological Bases of Behaviour. PSY362S/PSY363F/PSY371F /PSY373S/PSY375F /PSY385F/PSY390S.
 - b. Developmental and Social Processes. PSY326S/PSY364S/PSY365S /PSY366S/PSY367F/PSY369F/PSY372F/PSY376S/PSY378F/PSY380F/PSY383S/PSY385F/PSY390S.
 - c. Learning and Cognition. PSY306F/PSY373S/PSY375F/PSY376S/PSY378F.
2. One lab course. PSY351S/PSY353F/PSY355S/PSY356F/PSY357S/PSY374S.
3. A sufficient number of additional psychology courses to meet the requirement of ten full courses in Psychology. At least five of the ten full courses must be at level 300 and 400. Courses at level 300 and 400 which satisfy the requirements in III.1 and III.2 may be counted toward the fulfillment of the requirement of at least five full courses at level 300 and 400. Psychology courses which satisfy the requirements in I and II should also be counted toward the fulfillment of the total requirement of ten full courses in Psychology.

It is recommended that first year students who are sure that they want to specialize in psychology take PSY200F and PSY201S during their first year. It is further recommended that they satisfy two of the distribution requirements of II.2 in the second year and satisfy the remaining distribution requirement in their third year. It is expected that the requirements in III will be fulfilled in the third and fourth year. Anyone wishing to specialize in psychology should review his proposed programme with the faculty advisors.

Minor Programme in Psychology

Six full courses or the equivalent number of half courses are required for a minor in psychology. PSY100Y must be one of these six courses. In addition, students must satisfy section II.2 of the specialist programme. Courses which satisfy section II.2 can be counted toward the requirement of six full courses. At least two of these six courses must be at level 300.

INTERDISCIPLINARY SPECIALIST PROGRAMME IN ANIMAL BEHAVIOUR

The Psychology and Biology Departments offer an interdisciplinary specialist programme in Animal Behaviour. Students selecting courses in Biology as part of their Animal Behaviour Specialist programme must achieve a standing in those courses consistent with that specified for the Biology Specialist programme.

First Year

BIO100Y and PSY100Y

Second Year

BIO251Y and PSY213F

Either PSY200F and PSY201S or BIO360Y

Either PSY209Y or PSY218F.

Third Year

BIO322F and BIO323S and BIO340Y.

Either BIO321Y or PSY371F (Note prerequisites for these courses).

One of the following: PSY362S/PSY385F/ PSY390S.

Fourth Year

Either PSY400Y or BIO480H and BIO481H.

Other Biology and Psychology Courses of direct interest to students interested in Animal Behaviour.

BIO230F, 231S, 235Y, 324Y, 351Y, 422S, 424S, 431Y, 432S, 440F, 442F, 445H.
PSY208F, 353S, 363S, 367F, 372F, 373S, 374S, 375F.

PSY100Y INTRODUCTORY PSYCHOLOGY 3L

Psychology is the science of behaviour; and this course seeks to acquaint the student with the scientific method as it is applied in attempting to understand both human and animal behaviour. This course is a prerequisite for all other psychology courses, except PSY200F, PSY201S.

PSY200F STATISTICS AND RESEARCH DESIGN I 2L, 2T
(Same as STA202F and GGR202F)

Basic descriptive and inferential statistics. EXCLUSION: Any concurrent or previous Statistics course.

PSY201S STATISTICS AND RESEARCH DESIGN II 3L

Concerned with the design of experiments and the more advanced methods of statistical analysis, including complex analysis of variance. B. Schneider PREREQUISITE: PSY200F or equivalent.

PSY203Y INTRODUCTION TO SOCIAL PSYCHOLOGY 3L

A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes, interpersonal relations, group processes, and ethnic attitudes. P. Pliner. PREREQUISITE: PSY100Y.

PSY204S PERSONALITY 3L

Emphasis on empirical research in such areas as authoritarianism, need for achievement, manifest anxiety, self-concept. R. Rosenbaum. PREREQUISITE: PSY100Y.

PSY208F SENSORY AND PERCEPTUAL PROCESSES 3L

Examination of theoretical and experimental efforts aimed at understanding sensory and perceptual function. Emphasis will be placed on vision research at both the physiological and behavioural levels. B. Schneider. PREREQUISITE: PSY100Y.

PSY209Y PHYSIOLOGICAL PSYCHOLOGY 3L

An introduction to the study of the neural and endocrinological bases of behaviour. M. Moscovitch, A. Fleming. PREREQUISITE: PSY100Y.

PSY213F COMPARATIVE PSYCHOLOGY 3L

The innate and learned social responses of a variety of animals will be studied with emphasis on both the similarities and differences in species-specific modes of responding. L. Krames. PREREQUISITE: PSY100Y.

PSY214F

HUMAN MEMORY AND LEARNING

3L

Facts, theories, and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour. F.I.M. Craik. PREREQUISITE: PSY100Y(PSY216S recommended).

PSY216S

EXPERIMENTAL DESIGN AND THEORY

3L

Problems involved in experimental design and the interpretation of experimental findings; the logical structure in psychological theories. Practice in the critical evaluation of experimental designs and the correction of experimental errors. T. M. Alloway. PREREQUISITE: PSY100Y.

PSY218F

CLASSICAL AND INSTRUMENTAL CONDITIONING

3L

Phenomena of classical and instrumental conditioning in mammals will be discussed from both an empirical and a theoretical point of view. T. M. Alloway. PREREQUISITE: PSY100Y.

PSY268Y

DEVELOPMENTAL PSYCHOLOGY: CHILDHOOD

3L

A survey of contemporary research and theory in the scientific study of the behaviour of children. C. Carter. PREREQUISITE: PSY100Y.

PSY306F

INTRODUCTORY PSYCHOLINGUISTICS

2L

A contemporary approach to the psychological study of language and speech, highlighting the biological and cognitive aspects of language acquisition and use. S. Trebilcot. PREREQUISITE: PSY100Y (PSY214F and PSY218F recommended).

PSY310F*

INDIVIDUAL PROJECT

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. PREREQUISITE: PSY200F, 201S, a laboratory course and P.I.

PSY311S*

INDIVIDUAL PROJECT

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. PREREQUISITE: PSY200F, 201S, a laboratory course and P.I.

PSY326S

ABNORMAL PSYCHOLOGY

3L

A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques. K.R. Blankstein. PREREQUISITE: PSY204S/PSY218F.

PSY327S

DEVELOPMENTAL PSYCHOLOGY: PSYCHOPATHOLOGIES OF CHILDHOOD 2L

Considers concepts of normal, abnormal and delayed development. Schemes of classification and diagnoses, approaches to identification of etiologies, and contemporary treatment methods are critically evaluated. The emphasis is on controlled experimentation as a primary source of knowledge about psychopathology and treatment. PREREQUISITE: PSY268Y/326S.

PSY 351S

LABORATORY IN HUMAN MEMORY AND LEARNING

3P

Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as subjects and are encouraged to design, carry out and write up experiments in this area. Enrolment in this course will be limited to 20 students. F.I.M. Craik.
PREREQUISITE: PSY200F, PSY201S, PSY214F.

PSY 353F

LABORATORY IN SENSORY AND PERCEPTUAL PROCESSES

3P

The fundamentals of sensory and perceptual processes. Students conduct weekly laboratory experiments, using each other as subjects. Enrolment in this course will be limited to 20 students. B. Schneider. PREREQUISITE: PSY200F, PSY201S, PSY208F.

PSY 355S

LABORATORY IN PSYCHOBIOLOGY

3P

Supervised demonstration experiments designed to familiarise students with methods of collecting, analysing, and reporting data in ethological and physiological experiments employing animal subjects. Students will also learn how to handle selected species of animals. Enrolment in this course will be limited to 24 students. M. Moscovitch, A. Fleming. PREREQUISITE: PSY200F, PSY201S or BIO360Y and either PSY209Y or PSY213F.

PSY 356F

LABORATORY IN SOCIAL PSYCHOLOGY

3P

Independent research projects in the general areas of social psychology or personality. Each project will include the design of an experiment, data collection, and a written report. Enrolment in this course will be limited to 25 students. P. Pliner. PREREQUISITE: PSY200F, PSY201S, PSY203Y/PSY203F /PSY204S.

PSY 357S

LABORATORY IN DEVELOPMENTAL PSYCHOLOGY

3P

Readings, laboratory exercises and research projects designed to acquaint the student with methodology appropriate for infant and child study. Enrolment in this course will be limited to 20 students. S. Trehub. PREREQUISITE: PSY200F, PSY201S, PSY268Y/PSY368F.

PSY 362S

ANIMAL BEHAVIOUR AND ETHOLOGY
(Not offered 1976-77)

3L

A study of the social behaviour of organisms (human and non-human) as observed and measured in both laboratory and field settings. T.M. Alloway. PREREQUISITE: PSY 213F.

PSY 363F

DEVELOPMENTAL PSYCHOLOGY: EARLY EXPERIENCE

3L

A consideration of the ontogeny of behaviour in human and non-human organisms. Stress is placed upon consideration of the effects of early experience on later behaviour as well as on developing a scheme which permits the comparison of developmental organization among various species. A. Fleming. PREREQUISITE: PSY213S/368F/268Y.

PSY 364S

SOCIAL PSYCHOLOGY: ATTITUDES
(Not offered 1976-77)

3L

Intensive study of social attitudes and opinions - their development, description and measurement, modification, and organisation. Enrolment in this course will be limited to 20 students. PREREQUISITE: PSY203Y/PSY203F.

PSY365S

SOCIAL PSYCHOLOGY: INTER-PERSONAL BEHAVIOUR
(Not offered 1976-77)

3L

Detailed analysis of some of the determinants and consequences of various forms of social interaction; conformity and social influence, social comparison, affiliation. Enrolment in this course will be limited to 20 students. P. Pliner.
PREREQUISITE: PSY203F /203Y.

PSY366F

SOCIAL PSYCHOLOGY: SOCIAL PERCEPTION

3L

Examination in depth of the ways in which people view others and of the psychological processes underlying these views: impression formation, ingratiation and the presentation of self, cognitive consistency. Enrolment in this course will be limited to 20 students. R.M. Rosenbaum. PREREQUISITE: PSY203Y/PSY203F.

PSY367F

NONVERBAL COMMUNICATION

3L

A survey of research and theory concentrating on nonverbal communication as a form of social organization. Topics such as facial expressions, gestures, proxemics will be discussed. The main concentration will be on human adults, but research on children and non-human primates will also be reviewed. R. Abramovitch. PREREQUISITE: PSY100Y/CMM100Y.

PSY369F

DEVELOPMENTAL PSYCHOLOGY: ADOLESCENCE

3L

A survey of contemporary research and theory on adolescent behaviour. PREREQUISITE: PSY268Y/368F.

PSY370S

MOTIVATION

3L

A view of the crucial variables which serve as an impetus to behaviour in both human and non-human organisms. PREREQUISITE: PSY209Y.

PSY371F

ADVANCED PHYSIOLOGICAL PSYCHOLOGY

2L

Current areas of research in physiological psychology will be explored in detail. These areas will include the following: the hormonal bases of human and animal behaviour, the development of motivational systems and perceptual capacities, the physiological bases of memory, language, and other higher cortical functions in man, and the neurochemical bases of sleep and emotion. A. Fleming, M. Moscovitch. PREREQUISITE: PSY209Y.

PSY372F

PSYCHOPHYSIOLOGY

3L

Examines the interrelationships between physiological and psychological aspects of behaviour. The emphasis is on studies employing human subjects whose physiological responses are recorded on a polygraph while stimuli are presented which are designed to influence mental, emotional or motor behaviour. Enrolment in this course will be limited to 20 students. K.R. Blankstein. PREREQUISITE: PSY218F and P.I.

PSY373S

COMPARATIVE PSYCHOLOGY OF LEARNING

3L

(Not offered 1976-77)

The learning capacities of a number of different kinds of animals will be discussed and compared. Consideration will be given to theoretical and practical problems encountered in attempting to understand the evolution of learning capacities. T.M. Alloway. PREREQUISITE: PSY218F.

PSY374S

LABORATORY IN PSYCHOPHYSIOLOGY

3P

The fundamentals of psychophysiological research. Students conduct weekly laboratory experiments with the polygraph, using each other as subjects. Topics include recording, scoring and quantification problems, autonomic reactivity, habituation, reaction time, classical and instrumental conditioning, biofeedback and lie-detection. Enrolment in this course will be limited to 15 students. K.R. Blankstein. PREREQUISITE: PSY200F, PSY201S, PSY372F and P.I.

PSY375S

COGNITIVE NEUROLOGY

2S

Problems in cognitive psychology will be explored from the viewpoint of clinical neurology. Some sample topics: amnesia and models of memory; split-brain research; the temporal lobes and verbal and non-verbal memory; the role of the frontal lobes; perceptual asymmetries in normal people; models of brain function. M. Moscovitch. PREREQUISITE: PSY209Y or 214F.

PSY376S

DEVELOPMENTAL PSYCHOLOGY: PERCEPTUAL DEVELOPMENT

3L

A survey of current research in auditory and visual abilities in infancy and childhood. S. Trebilcot. PREREQUISITE: PSY268Y/PSY368F/PSY208F.

PSY378F

DEVELOPMENTAL PSYCHOLOGY: COGNITIVE DEVELOPMENT

3L

A survey of contemporary research and theory in the development of language, thinking and intelligence, including a consideration of Piaget's views. R. Abramovitch. PREREQUISITE: PSY268Y/368F.

PSY380F

DEVELOPMENTAL PSYCHOLOGY: EARLY SOCIAL BEHAVIOUR

3S

An examination of research on topics such as attachment, dependency, and peer relations in infants and young children. Enrolment in this course will be limited to 25 students. PREREQUISITE: PSY268Y/368F.

PSY383S

DEVELOPMENTAL PSYCHOLOGY: SOCIAL DEVELOPMENT

3L

A survey of contemporary research and theory in various aspects of social development such as moral development, sex-role development, aggression, pro-social behaviour. R. Abramovitch. PREREQUISITE: PSY268Y/PSY368F.

PSY385S

MAMMALIAN SOCIAL BEHAVIOUR

2S

A seminar limited to 12 students for the preparation and discussion of papers dealing with such mammalian social phenomena as co-operation, social facilitation, agonistic behaviour, territoriality, competition, altruism, communication, dominance, imitation, attachment and population regulation. I. M. Spigel. PREREQUISITE: PSY213F.

PSY390S

COMPARATIVE SOCIAL BEHAVIOUR

3L

(Not offered 1976-77)

Types of social organization and interaction in various animal groups will be discussed. Emphasis will be placed upon the evolution, ontogeny and biological functions of social behaviour in animal groups which possess complex social systems. T.M. Alloway. PREREQUISITE: PSY213F or BIO322F.

PSY400Y*

THESIS RESEARCH

In addition to periodic seminars, students will conduct independent, though supervised, research and write a thesis based upon their work. PREREQUISITE: PSY200F, 201S, one year of psychology laboratory courses and a good background in psychological course work. For fourth year students only, and with permission of a supervisory staff member.

PSY405Y

CURRENT ISSUES IN PSYCHOLOGY

3T

Attempts to integrate strands of psychological thinking from the various more specific courses which the student has already taken. Staff members will examine theories and findings from their own areas of interest and place them in a broader context. Enrolment in this course will be limited to 20 students. PREREQUISITE: For third and fourth year students with a B average or better in at least six PSY half-courses.

PSY406Y

APPLICATIONS AND GENERAL ISSUES IN PSYCHOLOGY

2S

A seminar and practicum dealing with the history, philosophy, and application of selected topics in psychology. Particular emphasis is placed upon the application of psychological principles to college teaching. Enrolment in this course will be limited to 15 students. PREREQUISITE: P.I. For third and fourth year students with a good background in psychological course work.

PSY410H

SPECIFIC TOPICS IN DEVELOPMENTAL PSYCHOLOGY: BEHAVIOURAL GENETICS

1S

(To be offered in 1976-77 in conjunction with BIO445S)
A seminar course designed to combine the principles of genetics and psychology in understanding the behavioural development of man and other species. Topics will include empirical studies of the interaction between genotype and environment as well as ethical and social implications arising from research with humans. C. Carter and W.G. Filion. PREREQUISITE: BIO100Y/PSY268Y and written P.I. (BIO340Y recommended).

PSY412F*

INDIVIDUAL PROJECT

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. PREREQUISITE: PSY200F, 201S, a laboratory course and P.I.

PSY413S*

INDIVIDUAL PROJECT

Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour. PREREQUISITE: PSY200F, 201S, a laboratory course and P.I.

* Relevant faculty members must be consulted during preceeding term. Students may take no more than the equivalent of four "project" or "thesis" half courses.

RELIGIOUS STUDIES

Faculty Advisor: Professor L. Elmer.

Religious Studies as an academic discipline is based upon a broad concept of the fundamental significance of religion in the life of the individual person and of society. The breadth of the concept of religion which is assumed in approaching it academically is reflected in the diversity of courses offered by the Department of Religious Studies and in those courses from other disciplines recommended as cognate studies. Furthermore, students engaged in the study of religion are encouraged to bring to that study the instruments of critical and sensitive enquiry which they have developed in other areas. Through the perspectives and methods of various disciplines, separately and in combination, fundamental assumptions and questions pertaining to personal and social values and beliefs, which are too frequently excluded from other forms of enquiry, are exposed and systematically examined.

Mankind has expressed in many ways its deepest convictions and doubts, its values and aspirations, its sense of mystery and awe. Feelings, thoughts, and actions in such matters generate great (and sometimes trivial) art, philosophy, customs, social institutions, and theories about the nature of ultimate reality. From time to time these forms of expression coalesce within a particular pattern and tradition which we may identify as a "great" or "world" religion. Along with such religions - both within them and outside them - are individuals and groups who maintain a unique set of convictions, values, symbolic interpretations of experience, and behaviour. The investigation of both "great" and "particularized" religions constitutes the academic enterprise entitled Religious Studies. The Department does not view the pursuit of its programmes exclusively as a means to other ends such as graduate study, teaching, social work, counselling, law or other professional careers, but as principally and intrinsically rewarding in itself.

Recommended Programmes of Study for specialists and minors in Religious Studies are explained in the Department's Handbook. This will assist students in assembling unified programmes which should, nevertheless, reflect the wide subject matter and variety of methods involved in the study of religion. These Programmes may include a number of relevant courses from other disciplines such as Anthropology, Classics, English, Fine Art, History, Philosophy, Psychology, or Sociology, as well as such close cognate areas as East Asian Studies, Islamic Studies, Near Eastern Studies, or Sanskrit and Indian Studies.

For further information, consult the Department's Handbook published each Spring and available from the Department Office, instructors, or college registrars. Students are encouraged to ask any member of the Department for academic counselling or to seek assistance at the Department Office.

Enquiries: Department of Religious Studies. 110 Charles Street West.
978-2395.

REL100Y

WORLD RELIGIONS I: AN INTRODUCTION

2L,1T

An introductory course exploring the following religious traditions: Judaism, Zoroastrianism, Christianity, Islam, Hinduism, Buddhism, Confucianism, Taoism and Shintoism. Readings (in translation) from the sacred scriptures of these religions. Comparison of their ideas, attitudes, beliefs, practices, rituals and ceremonies. S.A. Nigosian. EXCLUSION: REL220 (G).

REL 105Y

CONTEMPORARY PROBLEMS IN RELIGIOUS ETHICS

2L,1T

An introduction to the analysis of ethical problems in the context of religious studies. Abortion; poverty; sex, marriage and the changing roles of men and women; genetic engineering; the ecological crisis. L.E. Schmidt. EXCLUSION: REL210 (1972-73), REL190 (1973-74).

REL 203Y

FUNDAMENTAL THEOLOGICAL CONCEPTS IN IMAGINATIVE LITERATURE
1L,2T

The problems of doubt and faith, despair and hope, flesh and spirit, vice and virtue, sin and grace, suffering and freedom, mortality and immortality, in the works of selected imaginative writers. Critical analysis, in terms of classical theological categories, of selections from such authors as Dostoyevsky, Bernanos, Mauriac, Eliot and Camus. (All works to be read in English.) M.J. Lavelle.

REL 230Y

THE ROLES OF RELIGION IN HUMAN DEVELOPMENT

2L,1T

(I)

The positive and negative roles which religion has played and continues to play in human development and in cultural progress. A general analysis of personhood and the need in authentic human living for self transcendence. The phenomenon of faith; religion as wonder; religion as meaning; and religion as health. (REL230Y and REL362Y are offered in alternate years.) L.J. Elmer.

REL 260Y

THE DEATH OF GOD IN MODERN TIMES

2L,1T

The atheistic and religious response to the secularization of Western consciousness as it has developed since 1850. The writing of Kierkegaard, Marx, Nietzsche, and Dostoyevsky as foreshadowing the religious crisis of the twentieth century manifested in the thought of Sartre, Bonhoeffer, Buber and The Death of God theologians. L.E. Schmidt.

REL 261Y

WORLD RELIGIONS II: CHRISTIANITY

2L,1T

The role of Christianity among religions, and its contribution to human ethical and religious ideas, studied in its historical development and through an analysis of its institutions, practices and teachings. (REL261Y and REL361Y are offered in alternate years.) S.A. Nigosian.

REL 262Y

WORLD RELIGIONS III: ISLAM
(Not offered 1976-77)

2L,1T

The role of Islam among world religions, and its contribution to human ethical and religious ideas, studied in its historical development and through an analysis of its institutions, practices and teachings. (REL262Y and REL263Y are offered in alternate years.) S.A. Nigosian.

REL 263Y

WORLD RELIGIONS IV: BUDDHISM

2L,1T

The role of Buddhism among world religions and its contribution to human ethical and religious ideas, studied in its historical development and through an analysis of its institutions, practices and teachings. (REL263Y and REL262Y are offered in alternate years.) S.A. Nigosian. EXCLUSION: SIS260 (G).

REL 361Y

WORLD RELIGIONS V: A COMPARATIVE STUDY
(Not offered 1976-77)

2L,1T

A comparison of world religions and their role and significance in the modern secular society. Agreements and differences in teachings and practices among world religions. Arguments for and against a universal religion. The future direction of the world religions. (REL361Y and REL261Y are offered in alternate years.) S.A. Nigosian

REL 362Y

EVOLUTION AND EVIL
(Not offered 1976-77)

2L,1T

The thought and spirit of Teilhard de Chardin as a Christian interpretation of evolutionary theory. The problem of evil in relation to evolution. The dignity and value of human work. The relevance of Teilhard de Chardin for twentieth century man. (REL362Y and REL230Y are offered in alternate years.) L.J. Elmer.

REL 375Y

COMMUNICATIONS AND RELIGIOUS CONSCIOUSNESS

2L,1T

The development of religious identity both from a psychological and a sociological point of view, and the pervasive effects of the communications media on this development. The function of mythic acts, clothes, cosmetics, dance, music, academic structures, novels, movies, newspapers, as well as more personal forms of communication (diary, autobiography, letters, etc.) in the creation of religious consciousness. L. E. Schmidt.

REL400Y

INDIVIDUAL STUDIES

Student-initiated projects of reading and research, primarily intended for specialists and supervised by members of the department. After obtaining a supervisor, a student must apply to the department.

SLAVIC LANGUAGES AND LITERATURE

Faculty Advisor: Professor N.N. Shneidman

The Slavic literary and cultural tradition represents one of the great achievements of mankind. The Department offers a range of courses in Russian language and literature to provide access to that tradition. These courses are suitable for inclusion in a wide variety of programmes of study irrespective of whether the student has studied Russian in Grade XIII or not. Some students may specialize intensively in Russian language and literature. Others may simply wish to gain a working knowledge of Russian to aid their reading of important material in another field, as for example, science or social science. Language study in the Department emphasizes skills in using literary materials, and it also employs oral methods, combining small instructional groups with laboratory and conversational practice.

Russian literature has always been concerned with meaningful and universal human problems and has looked at them from a fresh and unique point of view. Giants of world literature such as Pushkin, Turgenev, Tolstoy and Dostoevsky, explore these problems in their nineteenth century novels, plays and poetry. The continuation and development of this same tradition under new Soviet conditions in the twentieth century by writers such as the Nobel Prize Winners, Sholokhov, Pasternak and Solzhenitsyn, makes another fascinating area of study.

The specialist programme in Russian language and Literature requires ten SLA courses over the four-year programme. The specialist programme in Slavic Languages and Literature requires eleven SLA courses over the four-year programme. Both programmes include seven Russian "core" courses required for the Russian component in double specialization.

Brindale College offers a full range of courses required for specialization in Russian Language and Literature for the first three years of study.

First-year programme: required SLA100Y, recommended SLA110Y

Second-year programme: required SLA210Y, SLA220Y; recommended SLA212Y

Third-year programme: required SLA310Y, SLA320Y; recommended SLA314F, SLA317S

Students who have taken grade XIII Russian are admitted to SLA220Y (Intermediate Russian Language).

SLA100Y FIRST YEAR RUSSIAN

5T

An introductory course in Modern Russian for students with little or no prior knowledge of the language. Practice in aural comprehension, speaking, reading, and writing. Language laboratory practice. K. Lantz.

SLA110Y INTRODUCTION TO SLAVIC CULTURE AND LITERATURE 1L,1T
(In English)

The historical development of Slavic culture, language, and literatures from the beginning to the present. Readings (in translation) selected from all periods of Russian, Ukrainian, Polish, and other Slavic literatures, including works by Dostoevsky, Solzhenitsyn, Shevchenko, Mickiewicz. N.N. Shneidman.

SLA210Y NINETEENTH CENTURY RUSSIAN LITERATURE (In English) 2L,1T

(I) A study of the major novels of the nineteenth century with emphasis on the problem of the individual and society. Readings (in translation) of the works of Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and others. Students specializing in Russian will be required to do a certain amount of reading in the original. K. Lantz.

SLA212Y RUSSIAN DRAMA 1L,1T
(Not offered 1976-77)

An historical survey of the Russian theatre: origins, development of genres, relations with prose and poetry, impact on modern Western drama. Plays from the classical (Fonvizin, Griboedov), Romantic (Pushkin, Gogol), realistic (Ostrovsky), modernistic (Chekhov, Blok, Mayakovsky), and Soviet repertory. Readings in English. K. Lantz.

SLA219Y LITERATURE, ART AND REVOLUTION 1L,1T

An investigation of the impact of revolution on art in Russia and the Soviet Union. The historical development of Marxist aesthetics and their practical application to literature, painting, drama and other arts. N.N. Shneidman.

SLA220Y INTERMEDIATE RUSSIAN 3T,1P

(I) Continued study of Russian with language laboratory practice, oral practice, composition and conversation based on reading of literary texts and topics of current interest. K. Lantz and N.N. Shneidman. PREREQUISITE: SLA100Y or Grade XIII Russian.

SLA310Y

TWENTIETH CENTURY RUSSIAN LITERATURE (In English)

1L,1T

A survey of Russian literature of this century with emphasis on the Soviet period. A study of modernism; the impact of the 1917 Revolution on literature; the evolution of Soviet literary policy; contemporary problems of artistic freedom. Readings (in translation) will include works by Gorky, Bunin, Babel, Sholokhov, Pasternak, Solzhenitsyn, and others. Specialists will be required to do a certain amount of reading in the original. K. Lantz.

SLA314F

DOSTOEVSKY

1L,1T

Crime and Punishment, The Brothers Karamazov, plus other novels and shorter works. Dostoevsky's political, psychological and religious ideas as they shape and are shaped by his literary art. Readings in English. N.N. Shneidman.

SLA317S

TOLSTOY

1L,1T

War and Peace, Anna Karenina, plus other important shorter works. Tolstoy's political, psychological and religious ideas as they shape and are shaped by his literary art. Readings in English. N. Shneidman.

SLA320Y

ADVANCED RUSSIAN

3T,1P

Continued study of grammar, composition, and translation. Oral practice and stylistic analysis of selected texts. Extensive reading programme. N.N. Shneidman. PREREQUISITE: SLA220Y or equivalent.

SOCIOLOGY

Faculty Advisor: Professor M. Spencer

One of the essential questions sociologists have had to confront concerns the extent to which the individual is determined by society and to what extent he is a determinant of society. In examining such questions, sociologists use the methods of science as well as those of the humanistic disciplines. The answers are not self-evident and traditional explanations often prove unreliable, both as a source of understanding and as a guide to action. Sociology provides another approach for assessing existing knowledge and developing more valid theories of social behaviour and the nature of society.

Students in other fields may gain from the study of sociology a clearer understanding of the human and social condition as it relates to their chosen profession and to contemporary institutions in general. There are opportunities in Canada and abroad for professional sociologists in teaching, research, administrative and consulting positions. A professional career in sociology usually requires advanced training beyond the undergraduate level.

A major in sociology, for those wishing to specialize in this area, requires four full years and a minimum of seven courses in sociology plus two courses selected from political economics, history, anthropology, geography, or psychology.

The seven courses in sociology must include one course each in research methods and sociological theory, and at least two 300- or 400-series sociology courses, including one 400 level seminar in "selected topics". SOC201Y and SOC313Y, or their "acceptable equivalents", will meet the methods and theory requirements (check the St. George Campus Calendar, "suggested programmes of study" in sociology for acceptable equivalents), and it is strongly recommended that SOC201Y be taken during the second year.

A minor in sociology requires a minimum of six courses in sociology, including one course each in research methods and sociological theory, and at least two 300- or 400-series sociology courses.

Students entering this programme should enrol with the Department of Sociology before the end of the first term in their second and subsequent year; and should seek advice from instructors in the Department while working out their programmes.

SOC101Y	INTRODUCTION TO SOCIOLOGY	2L,1T
	An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society. Staff.	
SOC201Y	METHODS OF SOCIAL RESEARCH	2L,1P
	An introduction to sociological research procedures and elementary statistics. (This course should be taken in the second year.) J. Simpson, W. Kalbach. PREREQUISITE: SOC101Y/P.I.	
SOC202Y	STRUCTURE OF INTERPERSONAL RELATIONS	2L,1T
	A study of patterned relationships, social roles, and social expectations that arise out of interaction among individuals. Staff. PREREQUISITE: SOC101Y/P.I.	
SOC205Y	URBAN SOCIOLOGY	2L,1T
	Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies. Studies human behaviour in its multifaceted relations with the urban environment. H. Breslauer. PREREQUISITE: SOC101Y/P.I.	
SOC212Y	SOCIOLOGY OF DEVIANCE	2L,1T
	A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. J. Hagan. PREREQUISITE: SOC101Y/P.I.	
SOC214Y	SOCIOLOGY OF THE FAMILY	2L,1T
	Development of the contemporary Western family with special emphasis on the changing relations among its members. PREREQUISITE: SOC101Y/P.I.	
SOC220Y	CANADIAN SOCIETY (Formerly SOC303)	2L,1T
	An analysis of the changing structure of Canadian society. EXCLUSION: SOC303 (1975-76). PREREQUISITE: SOC101Y/P.I.	

SOC301Y	SOCIAL INEQUALITY (Formerly SOC213E)	2L,1T
	Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories that have attempted to account for these phenomena. H.Boughey.	
	PREREQUISITE: SOC101Y/P.I.	
SOC304Y	CHANGE AND CONFLICT IN CONTEMPORARY SOCIETY	2L,1T
	An examination of technical, social, and ideological changes accompanying industrialization in both developed and underdeveloped nations. PREREQUISITE: SOC101Y/P.I.	
SOC305Y	SOCIOLOGY OF RELIGION (Not offered 1976-77)	2L,1T
	Various theories of religious behaviour and organization are examined with special attention given to the role of religion in relation to social change and social integration. Current research and methods of study will be stressed. PREREQUISITE: SOC101Y/P.I.	
<u>SOC306F</u>	THE SOCIOLOGY OF CRIME AND DELINQUENCY	2L,1T
	An examination of delinquent and criminal life-styles from the perspectives of social psychology, the sociology of occupations, and the sociology of law. The etiology, social history, organization, and societal response to different types of crime and delinquency are considered. Special attention is given to the career criminal. PREREQUISITE: SOC212Y/P.I.	
SOC309Y	SOCIOLOGY OF MASS COMMUNICATION	2L,1P
	The course first critically appraises some modern communications theorists --Innis, McLuhan, Meier-- and then dissects some old and new Canadian media institutions. Special emphasis on the origin and destiny of innovation, governmental media organizations. and their articulation with media institutions. Participants create a project utilizing one medium. P. Lorion. Enrolment limited. PREREQUISITE: SOC101Y/P.I.	
<u>SOC310F</u>	RACE AND ETHNIC RELATIONS	2L,1T
	Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences. M. Spencer. PREREQUISITE: SQC101Y/P.I.	
SOC311Y	SOCIOLOGY OF EDUCATION	2L,1T
	An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions. E. Silva. PREREQUISITE: SOC101Y/P.I.	
SOC312Y	POPULATION AND SOCIETY	2L,1T
	An analysis of population change and consequences from both global and Canadian perspectives. Trends in mortality, fertility, and migration are examined relative to their significance for growth, and their relation to social structure and social change. W. Kalbach. PREREQUISITE: SOC101Y/P.I.	

SOC313Y

SOCIOLOGICAL THEORY

2L, 1T

The development of sociology and contributions of particular sociologists whose concepts not only have historical interest but also illuminate the subject matter and method of contemporary society. P. Lorion. PREREQUISITE: SOC101Y/P.I.

SOC315Y

INTERACTION IN INSTITUTIONAL SETTINGS

2L

Ethnographic description and comparative analysis of standard social occasions taking place within the domains of the corporation, the church, school, government, and the court. The primary course objective is the observation and documentation of the everyday enactment of institutional "rules of the game" for social interaction. H. Boughey. PREREQUISITE: SOC101Y/P.I.

SOC316Y

GROUP STRUCTURE AND PROCESS

2L, 1P

The study of small group processes and structures, including leadership, influence, cliques and coalitions, communication patterns, productivity and morale. J. Kervin. PREREQUISITE: SOC202Y/P.I.

SOC324Y

POLITICS AND SOCIETY

2L, 1T

The social basis of politics. Culture and social organization in their relation to power and its application. E. Silva. PREREQUISITE: SOC101Y/P.I.

SOC328F

ENVIRONMENTAL SOCIOLOGY

3S

An examination of the multi-faceted relationship between the physical environment, especially the built environment (e.g. buildings) and human behaviour. Principles underlying people's use of space and the potential significance of the environment as a variable in the study of human behaviour will be considered. H. Breslauer. PREREQUISITE: SOC101Y, SOC205Y/P.I.

SOC329S

COLLECTIVE BEHAVIOUR

2L, 1T

An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving a study of relationships between forms of collective action and the more conventional order, i.e., the relationship of collective behaviour to social action and control, stability and change. H. Boughey. PREREQUISITE: SOC101Y/P.I.

SOC340Y

CONCEPTS, METHODS, AND VALUES IN URBAN STUDIES
(Same as GGR340Y) (Not offered 1976-77)

1L, 3P

A course designed for students concentrating in urban studies irrespective of major disciplinary area. It provides a survey of a variety of types of urban study from the social science perspective. The major emphasis is on linkages between the way in which urban phenomena and processes are conceptualized, the methods employed to study them and the often implicit system of values in which such investigations are framed. Urban researchers, both academic and applied, will be invited to discuss their research in the context of these issues. H. Breslauer, H. Andrews, G. Gad. PREREQUISITE: SOC205Y/GGR241Y/P.I.; and SOC201Y/(GGR271Y, GGR202F)/P.I.

SOC345Y

CANADIAN COMMUNITIES

2L,1T

This course focusses on methods of defining and analysing Canadian communities and urban communities. Processes of development and change are emphasized. Communities are also examined within a comparative perspective. H. Breslauer.
PREREQUISITE: SOC205Y/P.I.

SOC346Y

SOCIETY, ORGANIZATION, AND THE INDIVIDUAL
(Formerly SOC314)

2L,1T

An analysis of formal organizations, e.g. hospitals, prisons, schools, business firms, government agencies, etc., focusing upon their structural characteristics, effects of social environments, and the influence upon their members. J. Simpson. EXCLUSION: SOC314 (1975-76). PREREQUISITE: SOC101Y/P.I.

SOC390Y

INDIVIDUAL STUDIES

Students who wish to explore a subject in Sociology not offered in the regular programme, or to a greater depth than was possible in any course already completed, should submit a specific proposal to a professor not later than October 1st. Preference is given to students with at least B+ standing in Second Year, and such registration is possible only when a faculty member is willing and available to supervise.
PREREQUISITE: SOC101Y/P.I.

SOC391F

INDIVIDUAL STUDIES

(See description, SOC390Y)

Not more than one Individual Studies course, SOC390Y, 391F, or 392S, can be taken from the same instructor. PREREQUISITE: SOC101Y/P.I.

SOC392S

INDIVIDUAL STUDIES

(See description, SOC390Y)

Not more than one Individual Studies course, SOC390Y, 391F, or 392S, can be taken from the same instructor. PREREQUISITE: SOC101Y/P.I.

Fourth-year courses provide the opportunity for greater specialization than is generally possible in second and third years. The actual content for "selected topics" courses, and additional prerequisites (if any) will be set by the instructor offering the course. Students who wish more information concerning specific courses and topics to be covered are advised to see the Faculty Advisor for Sociology.

SOC410F

SELECTED TOPICS IN RESEARCH METHODS I

2L,1P

(Not offered 1976-77)

PREREQUISITES: SOC201Y and at least two additional sociology courses beyond the introductory level, or P.I.

SOC411S

SELECTED TOPICS IN RESEARCH METHODS II

2S,1P

(Not offered 1976-77)

PREREQUISITE: SOC201Y and at least two additional sociology courses beyond the introductory level, or P.I.

SOC412F

SELECTED TOPICS IN SOCIOLOGICAL THEORY I

2L

(Not offered 1976-77)

PREREQUISITE: SOC313Y, and at least two additional sociology courses beyond the introductory level, or P.I.

<u>SOC413S</u>	SELECTED TOPICS IN SOCIOLOGICAL THEORY II (Not offered 1976-77) PREREQUISITE: Same as for SOC412F	2L
<u>SOC420F</u>	SELECTED TOPICS IN INTERPERSONAL RELATIONS I	2S,1P
	PREREQUISITE: SOC202Y, and at least two additional sociology courses beyond the introductory level, or P.I. J. Kervin.	
<u>SOC421S</u>	SELECTED TOPICS IN INTERPERSONAL RELATIONS II	2S,1P
	PREREQUISITE: P.I. J. Simpson.	
<u>SOC422F</u>	SELECTED TOPICS IN URBAN SOCIOLOGY AND POPULATION I	2S,1P
	PREREQUISITE: SOC312Y for population topics, and SOC205Y for topics in urban sociology, and at least two additional courses in sociology beyond the introductory level, or P.I.	
SOC423S	SELECTED TOPICS IN URBAN SOCIOLOGY AND POPULATION II	2S,1P
	PREREQUISITE: Same as for SOC422F.	
<u>SOC424F</u>	SELECTED TOPICS IN SOCIAL STRATIFICATION I	2S,1P
	PREREQUISITE: SOC213Y, and at least two additional sociology courses beyond the introductory level, or P.I.	
<u>SOC425S</u>	SELECTED TOPICS IN SOCIAL STRATIFICATION II	2S,1P
	PREREQUISITE: Same as for SOC424F.	
SOC490Y	INDEPENDENT RESEARCH Open only when a faculty member is willing and available to supervise, with preference to students with at least B+ standing in Third Year. Not more than one Independent Research course, SOC490Y, 491F or 492S, can be taken from the same instructor.	
SOC491F	INDEPENDENT RESEARCH (See SOC490Y.)	
SOC492S	INDEPENDENT RESEARCH (See SOC490Y.)	

SPANISH

Faculty Advisor: Professor M. Scarth

Hispanic culture offers a variety probably unrivalled by any other modern western culture. In the Middle Ages Spain was the vital point of contact between the Christian, Jewish and Islamic civilizations; in its Golden Age it led the way in the exploration and settlement of the New World, and established a great empire in the process; today it is estimated that the Spanish language is the third most widely-spoken in the world.

Spanish studies has a twofold goal; the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through study of the artistic and literary phenomena of that world.

Courses are offered for beginners in the language, as well as those with Grade XIII standing or equivalent. Stress is laid on both the spoken and written language and the language laboratory is used to promote fluency. After the first year all courses, both literary and linguistic, are conducted in Spanish as much as possible to give the student maximum exposure to the language.

Two courses, Spanish Civilization and Culture, and Latin American Civilization and Culture, are offered in English and may be taken by students in any year. These courses provide comprehensive views of the social, political, artistic and intellectual developments of Spain and Latin America and have proven useful not only to students studying the language but also to those who may have an interest in the Hispanic scene for other reasons.

Core language courses are offered in all years. Students wishing to specialize would, in addition to these core courses, follow programmes in literature and linguistics designed to allow them to enter Graduate Studies in Spanish or Type A courses at the Faculty of Education. Students may elect a single specialization (nine courses) or a combined specialization programme of Spanish and any other discipline (seven).

Opportunities for qualified teachers exist at the secondary and university levels. In addition, the study of Spanish as of other modern languages, may prepare students for such careers as those in the foreign service, journalism, publishing, commercial and cultural relations between Canada and Spanish-speaking countries. The development of closer Canadian relations with Spain and Latin America will extend the range of opportunity for those well versed in the Hispanic field.

In addition to Erindale course offerings, other courses may be taken on the St. George campus with the permission of the Faculty Advisor. Students may also wish to participate in the Third Year Abroad programme.

Early consultation with the staff is essential if the student is to be assured of a programme suitable for his needs and interests.

Courses with Low Enrolment may have to be withdrawn.

SPA100Y BEGINNING SPANISH

3L, 2P

For those who have had no previous background in Spanish. By the end of the year, students should have sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory. EXCLUSION: Grade XIII Spanish or equivalent.

SPA220Y

INTERMEDIATE GRAMMAR AND COMPOSITION

2L, 1P

(I)

Conducted mainly in Spanish and designed for those who have completed a basic course in the language. A grammar review and intensive written and oral practice provide an opportunity for a greater range of expression and a broader understanding of the language. O. Hegyi. PREREQUISITE: SPA100Y/Grade XIII or equivalent.

SPA247F

INTRODUCTION TO MODERN SPANISH DRAMA

2L

(I)

An introduction to the modern Spanish stage as portrayed by several leading playwrights in a variety of dramatic productions. In Spanish as much as possible. M. Scarth. EXCLUSION: SPA246F (1975-76) PREREQUISITE: SPA100Y/Grade XIII or equivalent.

SPA257S

MODERN SPANISH SHORT STORIES

2L

(I)

Several modern short stories will be studied not only for their literary value but for the insight they provide into social and intellectual problems. In Spanish as much as possible. M. Scarth. PREREQUISITE: SPA 100Y/Grade XIII or equivalent.

SPA291Y

SPANISH CIVILIZATION AND CULTURE (In English)

2L

(I)

Presents an overall view of the activities of the Spanish people from the early settlers of the peninsula to the current scene. Using the history of the country as a basic frame, it deals with the major currents of thought and the major accomplishments in literature, art, architecture and music. Slides, music and other illustrative material will be used. M. Scarth. EXCLUSION: SPA191 (1974-75).

SPA292Y

LATIN AMERICAN CIVILIZATION AND CULTURE (In English) 2L

(I)

From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; deals with significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material. E. Neglia. EXCLUSION: SPA192 (1974-75).

SPA297Y

MAJOR SPANISH WRITERS IN TRANSLATION

2L

(I)

An introduction to the Hispanic world for those who have no knowledge of Spanish. Universally renowned figures- the Cid, the Celestina, Don Quixote and Don Juan; themes of heroism, love, honour and rebellion; the Conquest of the New World, the Spanish Civil War and social unrest in Latin America. These and other topics will be discussed through a selection of literary texts in translation. J.R. Webster. This course may not be counted toward a specialist programme in Spanish.

SPA320Y

CREATIVE SPANISH

2L, 1P

Conducted mainly in Spanish and designed to meet the needs of those who already have a good basic knowledge of the language. Emphasis on improvement of style, translation, essay writing and oral practice. E. Neglia. PREREQUISITE: SPA220Y or equivalent.

SPA325H

HISTORY OF THE SPANISH LANGUAGE

1L

Begins with an introduction to phonetics, phonology and basic concepts of linguistics. Proceeds to the study of the

evolution of Spanish from its vulgar Latin origins up to the present day. An attempt will be made to relate linguistic development to historical and cultural aspects. Some general knowledge of Latin is desirable. Interest in theoretical linguistics and a working knowledge of Spanish will be assumed. Given in Spanish. O. Hegyi. PREREQUISITE: SPA220Y or equivalent.

SPA346F

MODERN SPANISH DRAMA

2T

A study of the major Spanish playwrights of the 20th century. It will include such authors as Benavente, Valle-Inclán, García Lorca and Buero Vallejo. E. Neglia. PREREQUISITE: SPA220Y or equivalent.

SPA350Y

SPANISH LITERATURE OF THE GOLDEN AGE
(Not offered 1976-77)

3L

A study, in Spanish, of Spain's most interesting and richest period, comprising the sixteenth and seventeenth centuries. Original texts - poetry, drama and novel - will be studied as reflecting the society of the age and its changing values. Special attention will be given to the picaresque novel and Cervantes. O. Hegyi. PREREQUISITE: SPA220Y or equivalent and one other course of the 200-or 300-series.

SPA356S

MODERN SPANISH NOVEL

2L

Covers the period from the beginning of the realistic novel in the nineteenth century up to the present day. Students will be expected to do a certain amount of reading of original texts as a preparation for their classes and a good working knowledge of Spanish is assumed as the course will be given in Spanish. O. Hegyi. PREREQUISITE: SPA220Y or equivalent and P.I.

SPA366S

MODERN SPANISH AMERICAN POETRY
(Not offered 1976-77)

2L

A study of some major poets and the different currents in Spanish American poetry; Pablo Neruda, César Vallejo for special study. E. Neglia. PREREQUISITE: One or more SPA 200-series course or equivalent.

SPA376S

MODERN SPANISH AMERICAN DRAMA

2L

An examination of the major 20th century themes and techniques. Plays selected from at least five of the following authors: Carlos Solórzano, Osvaldo Dragún, René Marqués, Emilio Carballido, Egon Wolff, Aguilera-Malta, Jorge Díaz, Enrique Buenaventura, Carlos Gorostiza. E. Neglia. PREREQUISITE: SPA220Y or equivalent.

SPA382F

MODERN SPANISH AMERICAN NOVEL
(Not offered 1976-77)

2L

A study of the representative novels of Spanish America, including the regional and Indianist novel as well as that of the Mexican revolution. E. Neglia. PREREQUISITE: One or more SPA 200-series courses or equivalent.

SPA385F

SPANISH AMERICAN STORY AND ESSAY

2L

Representative works of outstanding Spanish American essayists and short story writers including Sarmiento, Rodo, Quiroga, Borges, etc. will be studied. E. Neglia. PREREQUISITE: One or more SPA 200-series courses or equivalent.

SPA393Y

SPANISH HISTORY 1815 TO PRESENT

2T

(Same as HIS393Y)

A study of the events which culminated in the defeat of the Spanish Republic in 1939 and the establishment of the authoritarian regime of General Franco. J.R. Webster.
PREREQUISITE: P.I. or SPA394Y.

SPA394Y

SPANISH HISTORY 1469-1815

2T

(Same as HIS394Y) (Not offered 1976-77)

A study of the problems faced in the political unification of Spain, with emphasis on the diverse traditions of its component parts. J.R. Webster.

SPA420H

ADVANCED COMPOSITION AND ORAL PRACTICE

2T

Designed for those who already have a good knowledge of the language. Emphasis on ability to write and speak good Spanish through translation, essays, letters, class discussions, etc. J. Webster. PREREQUISITE: SPA320Y or equivalent.

SPA430F

MEDIAEVAL SPANISH VERSE

2L,1T

(Not offered 1976-77)

The development of epic poetry from the Cid to the romances. The mozarabic jarchyas and the origins of the lyric poetry of love. The mester de clerecía, the "bizantine" matter, and the Libro de Buen Amor. The literatura de protesta and other committed poetry. 15th century allegorical lyric and epic. J. R. Webster. PREREQUISITE: SPA220Y or equivalent.

SPA450S

MEDIAEVAL SPANISH LITERARY PROSE

2L,1T

(Not offered 1976-77)

The novelistic and epic elements of the early chronicles. Spain as point of departure for the development of the oriental frame story and literatura de ejemplos. The early novelas caballerescas. The origin of the allegorical and sentimental novel. The mediaeval aspects of the first Celestina. J.R. Webster. PREREQUISITE: SPA220Y or equivalent.

STATISTICS

(See Mathematics)

STA202F

STATISTICS

2L,2T

(Same as PSY200F and GGR202F)

(I) Acquaints beginning students in the biological, physical and social sciences with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples. EXCLUSION: Any concurrent or previous Statistics course.

STA212S

APPLICATION OF STATISTICS

2L,1T

(I)

A continuation of STA202F including analysis of variance and linear regression. Students interested in this course should consider carefully the similar specialized courses in other departments and also the STA232, 332, 342 sequence. EXCLUSION: STA222Y(G), 232Y(G), 242Y, 252Y(G), PSY201S, ECO220Y, GGR212S, BIO361S. PREREQUISITE: STA202F.

Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance. EXCLUSION: STA212S, 222Y(G), 252Y(G), PSY201S, ECO220Y, GGR212S, BIO361S. PREREQUISITE: (MAT130Y and 124S)/134Y/135Y/139Y/150Y(G).

STA332F

EXPERIMENTAL DESIGN

2L,1T

The statistical aspects of collecting and analyzing experimental data, analysis of variance, orthogonal designs. PREREQUISITE: STA242Y (C or better) or P.I.

STA342S

REGRESSION ANALYSIS

2L,1T

Regression theory with applications to the analysis of non-orthogonal data. PREREQUISITE: STA242Y (C or better) or P.I.

STA347S

PROBABILITY AND APPLICATIONS

2L,1T

(Offered if staff available)

Probability theory (extending elementary results), especially conditional probability, random variables (multi-dimensional), characteristic functions, law of large numbers. Introduction to stochastic processes with a selection from the following topics: Markov chains (discrete or continuous time), renewal theory, covariance stationary processes, turbulence and noise. EXCLUSION: STA357Y(G). PREREQUISITE: STA242Y or equivalent and MAT239Y/314F.

STA432F

ADVANCED STATISTICS

2L,1T

Topics in statistics selected from experimental design, sequential procedures, multivariate analysis, time series and others. PREREQUISITE: STA242Y or equivalent.

SURVEY SCIENCE

Faculty Advisor: Professor G. Gracie

Survey science is used to measure and represent the geometric and physical features of our environment. Accordingly, survey science is of fundamental importance in a variety of activities, which may include mapping the earth's surface and charting its waters, establishing land boundaries and delineating property, searching for and inventorying natural resources, studying the figure of the earth, and locating transportation facilities and other engineered structures. Recent activities include topographic mapping of the moon's surface using metric photography acquired by Apollo spacecraft.

Survey science relates to many other disciplines, particularly those which deal with the earth and its environment. Moreover, increased sophistication in measuring and data processing procedures has brought survey science into close alignment with the basic disciplines of mathematics, statistics, computer science and physics.

Students intending to become professional surveyors will satisfy the academic requirements of the Association of Ontario Land Surveyors by completing a four-year programme of study which includes: MAT135Y, PHY110Y/135Y, EPS120Y, CSC108F/148F, STA232Y/242Y, GGR373Y, SUR100Y/200Y, SUR210Y/303Y, SUR215F/305F, SUR220Y, SUR230Y, SUR240S, SUR260S, SUR310Y/(SUR250F, 350F, 360S), SUR320S, SUR405F, SUR410F, SUR420Y, SUR430S, and SUR450F.

SUR200Y

INTRODUCTION TO SURVEYING

2L, 3P

(I)

Introduction to the procedures used to acquire field data, process survey information, and present results in various forms, with consideration given to geodetic, cartographic, hydrographic, cadastral and engineering applications. PREREQUISITE: Grade XIII MAT R&F and C. EXCLUSION: SUR100Y(1972-74).

SUR220Y

PHOTOGRAMMETRY

2L, 3P

The metric camera, interior and exterior orientation of the metric photograph, the projective model, space resection and intersection, relative and absolute orientation. Photogrammetric instrumentation, including stereoplotters, comparators, rectifiers and orthophoto equipment. Application of photogrammetry to map compilation and other areas. PREREQUISITE: MAT135Y and PHY110Y/135Y.

SUR230Y

LAND SURVEYING

2L, 3P

Principles and procedures for precise measurement of direction, distance, height and depth, including electromagnetic distance measurement and positioning. Curve geometry. Introduction to development of a survey system. Cadastral, cartographic and engineering applications. PREREQUISITE: MAT135Y, PHY110Y/135Y, SUR200Y.

SUR240S

MEASUREMENT THEORY AND ADJUSTMENT OF OBSERVATIONS

2L, 2P

The statistical theory of measurement, including the concepts of measurement and error, measures of precision and accuracy, error propagation, weighting of observations, error ellipses and ellipsoids, and the statistical properties of 2- and 3-dimensional errors. The method of least squares, with application to several problems. COREQUISITE: STA242Y.

SUR250F

SURVEY LAW I

3L

Legal history; legal systems and institutions; introduction to English law in general with emphasis on land law. Guided topic reading and report writing. EXCLUSION: SUR310Y. PREREQUISITE: P.I.

SUR260S

LAND PLANNING

2L

Theory and practice of urban and rural planning; history of planning; outlines of social and economic organization; transportation and public services; environmental considerations, public administration; regional planning. PREREQUISITE: P.I.

SUR303Y

GEODESY

2L, 2P

The figure of the earth and the precise determination of position and height on or near the earth's surface. Fundamentals of geometrical geodesy, physical geodesy, satellite geodesy and map projections. PREREQUISITE: MAT135Y, PHY110Y/135Y. EXCLUSION: SUR210Y (1974-75).

SUR305F

GEODETIC ASTRONOMY

2L, 3P

The celestial sphere and its coordinate systems, variations in celestial coordinates, time systems, star catalogues and

instrumentation. Determination of astronomic azimuth, latitude and longitude. PREREQUISITE: MAT135Y, PHY110Y/135Y, SUR200Y. EXCLUSION: SUR215F (1974-75).

SUR320S DATA MANAGEMENT AND REPRESENTATION 2L,2P

Cartographic, photographic, digital and other forms of data representation. Data transfer, storage and retrieval. Data bases and data banks. Automated and interactive systems. PREREQUISITE: CSC108F/148F, SUR220Y.

SUR331F SPECIAL TOPICS IN SURVEY SCIENCE

Study of selected topics in Survey Science not covered in the regular courses. PREREQUISITE: P.I.

SUR332S SPECIAL TOPICS IN SURVEY SCIENCE

Study of selected topics in Survey Science not covered in the regular courses. PREREQUISITE: P.I.

SUR333H SPECIAL TOPICS IN SURVEY SCIENCE

Study of selected topics in Survey Science not covered in the regular courses. PREREQUISITE: P.I.

SUR350F SURVEY LAW II 3L

Real property law; land survey systems; title and deed registration systems. EXCLUSION: SUR310Y. PREREQUISITE: SUR250F/P.I.

SUR360S SURVEY LAW III 3L

Boundaries; land parcel descriptions; principles of evidence. EXCLUSION: SUR310Y. PREREQUISITE: SUR350F/P.I.

SUR405F FIELD SURVEY PROJECTS

An intensive three-week session in the field covering various aspects of survey project design, data acquisition, data reduction and layout. The course is held on campus and runs from August 23 through September 10, 1976. PREREQUISITE: SUR210Y/ SUR303Y, SUR215F/305F, SUR230Y, SUR240S.

SUR410F SURVEY CONTROL 2L,2P

The fundamentals of survey control systems; specific control systems, such as geodetic triangulation and trilateration, photogrammetric triangulation, and satellite triangulation. PREREQUISITE: SUR220Y, SUR405F.

SUR420Y SURVEY DESIGN AND SYNTHESIS 2L,3P

Consideration of the factors involved in the design and synthesis of cadastral, cartographic, hydrographic and engineering surveys; integrated survey systems; land development and management. PREREQUISITE: SUR310Y. COREQUISITE: SUR410F.

SUR430S

PROFESSIONAL PRACTICE

3L

History and tradition of surveying; professional charter by statute; ethics and responsibility; liability; fundamentals of business management; contract law; negligence law; court procedure and expert witness. PREREQUISITE: SUR360S/P.I.

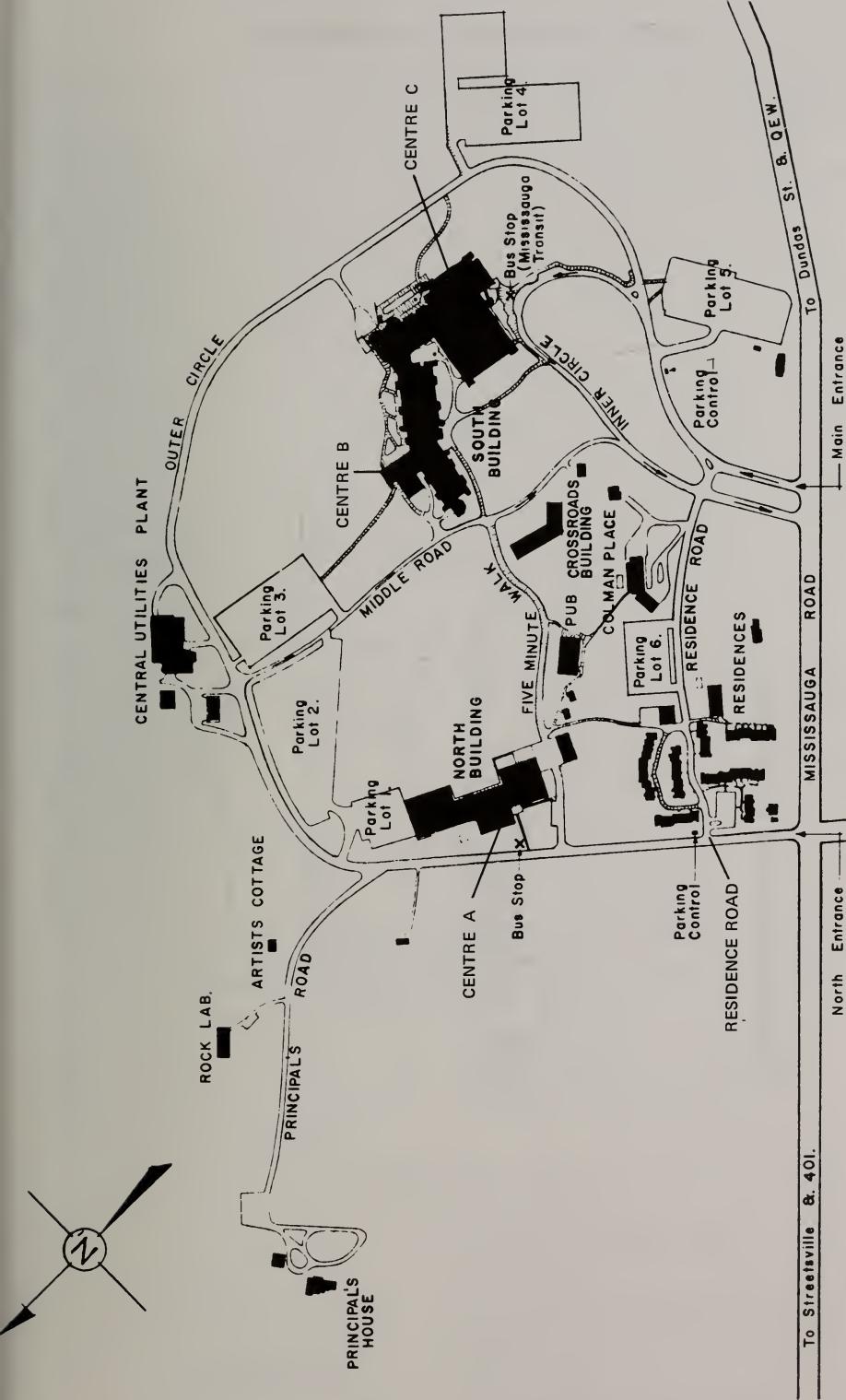
SUR450F

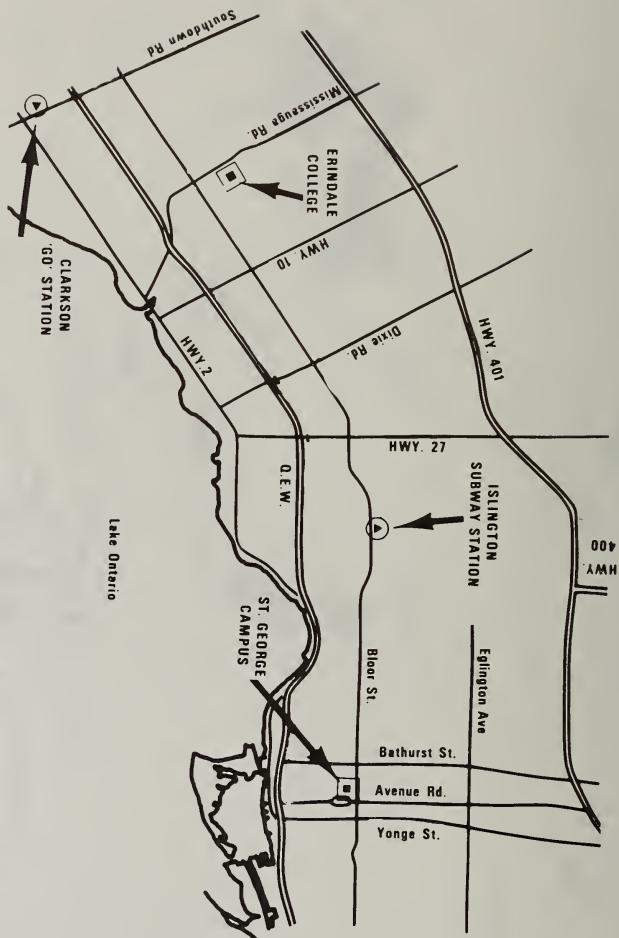
SURVEY LAW IV

3L

Advanced studies in Canadian survey law; case law studies; land information systems and cadastre; special topics. PREREQUISITE: SUR310(1975-76)/ SUR360S/P.I.

ERINDALE COLLEGE UNIVERSITY OF TORONTO





Routes to Erindale College

Subjects and Course Descriptions

Students are urged to read the course descriptions completely and carefully paying particular attention to exclusions, prerequisites and corequisites. Some higher-series courses are available to first year students and are marked with a (I) in the margin. Others may also be open to first or second year students if no specific prerequisites or restrictive notes are indicated.

The course code (or identifier) is the group of three letters, three numbers and a final letter shown in the margin beside each course description. This code is used almost everywhere to speed identification of a student's programme. Be careful in their use.

Previous Erindale College calendars used the suffix "E" as part of the course code to identify courses that were unique to Erindale either in content or in approach. In some cases their course code was the same as for courses on the St. George campus except for the "E". The "E" has been discontinued and courses that normally would have carried the "E" have their codes *underlined* in the margin this year. No "E" or underline is used in the text.

The following descriptions refer to courses taught at Erindale College even though the same course may be offered on the St. George campus as well. Therefore, it is important to watch the "campus code" when referring to a course not taken on the Erindale campus. A "(G)" after the course code in the text indicates a course appearing *only* in the St. George calendar. Courses appearing in earlier Erindale College calendars but not in this one show the last academic year in parentheses after the course code e.g. REL190(1973-74).

Subjects are listed alphabetically under the following abbreviations:

ANT	Anthropology	GRH	Greek & Roman History
APM	Applied Mathematics (See Mathematics)	HIS	History
AST	Astronomy	INI	Interdisciplinary (Innis College)
BIO	Biology (Botany, Zoology and Microbiology)	INE	Interdisciplinary (Erindale College)
CHM	Chemistry	ITA	Italian
CMM	Communications	LIN	Linguistics
COM	Commerce	MAT	Mathematics
CSC	Computer Science	MUS	Music
DRA	Drama	PHL	Philosophy
ECO	Economics	PHY	Physics
ENG	English	POL	Political Science
EPS	Earth & Planetary Sciences (Geology & Geophysics)	PSY	Psychology
FAH	Fine Art History	REL	Religious Studies
FAS	Fine Art Studio	SLA	Slavic Languages & Literature (Russian)
FRE	French	SOC	Sociology
GER	German	SPA	Spanish
GGR	Geography	STA	Statistics
GLL	Greek & Latin Literature (See Classics)	SUR	Survey Science

Other Abbreviations

L	Lecture hours
P	Practical or laboratory hours
S	Seminar hours
T	Tutorial hours
P.I.	Permission of the Instructor required
/	Means "or"
&	and the comma",","
(I)	May be taken by first year students
(G)	St. George calendar course code

Sesquicentennial



1827-1977